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FIELD SURVEY OF PROBABLE ALLERGENIC GRASSES IN THE MANILA AREA, 1970

By IRMA C. REMO and GLORIA LASERNA
National Institute of Science and Technology, Manila

ABSTRACT

A botanical survey was conducted in the Manila area in 1970 to determine the presently prevailing allergenic grasses. *Eleusine indica* (L.) Gaertn. (yard grass) was widely abundant while *Pennisetum polystachyon* (L.) Schult. (foxtail) was moderately abundant. *Cynodon dactylon* (L.) Pers. (Bermuda grass), *Saccharum spontaneum* Linn. (talahib), *Imperata cylindrica* (L.) P. Beauv. var. *major* (Nees) C.E. Hubb. (kogon), *Polytrias amaura* (Büse) O. Ktze. (Java grass), *Cenchrus brownii* Roem and Schult. (sand bur), *Chloris barbata* (L.) Sw. (koro-korosan), and *Panicum maximum* Jacq. (guinea grass) were rarely abundant. Comparison with the results of Payawal and Laserna[1] showed that there were some changes in vegetation which may be attributed to the diminished areas of vegetation in the city and the limitation of the classification to periods of abundant flowering.

INTRODUCTION

In a botanical survey of the Manila area undertaken in 1961-62 by Payawal and Laserna[2] to determine the most probable allergenic grasses, it was found that Bermuda grass [*Cynodon dactylon* (L.) Pers.], yard grass [*Eleusine indica* (L.) Gaertn.], and talahib [*Saccharum spontaneum* (L.) subsp. *indicum* Hack.] were the widely abundant grasses; Para

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[1] Pacifico Payawal and Gloria Laserna, Philip. Jour. Sci. **94**: 293-312 (1965).

[2] Loc. cit.

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grass [*Brachiaria mutica* (Forssk.) Stapf.], foxtail [*Pennisetum polystachyon* (L.) Schult.], Java grass [*Polytrias amaura* (Büse) O. Ktze.], luya-luyahan (*Panicum repens* Linn.), ganit-ganit [*Brachiaria subquadripara* (Trin.) Hitchc.], kogon [*Imperata cylindrica* (L.) P. Beauv. var. *Koenigii* (Retz.) Benth., joist grass (*Paspalum distichum* Linn.), and carabao grass (*Paspalum conjugatum* Berg.) were moderately abundant; and Johnson grass [*Andropogon halepensis* (L.) Brot. var. *propinguus* (Kunth.) Merr], barnyard grass [*Echinochloa crusgalli* (L.) Beauv.], and rice (*Oryza sativa* Linn.) were rarely abundant.

This field survey was conducted in the same area in 1970 to determine the presently prevailing allergenic grasses. Vegetation is dynamic and it changes with time. This brings about a change in the atmospheric pollen composition, the knowledge of which is essential to allergy studies.

MATERIALS AND METHODS

The survey was undertaken from January to December, 1970. The method used was basically the same as that of Payawal and Laserna,[3] that is, the area was divided into zones and grassy areas within the zones were designated as collection stations. These were surveyed at least 4 times a year or once every 3 months. However, instead of dividing Manila into zones of equal areas, the districts of the city were named as zones and these were used as unit areas in the classification.

During the survey, the most abundant flowering grasses were noted down and based on the frequency of occurrence of abundant flowering growth, the grasses were classified into three major categories:

1. widely abundant — grasses that were densely flowering in more than 50 per cent of the zones.
2. moderately abundant — grasses that were densely flowering in 25 to 50 per cent of the zones.
3. rarely abundant — grasses that were densely flowering in less than 25 per cent of the zones.

RESULTS

Table 1 shows the results of the survey. The most abundant flowering grass in the Manila area in 1970 was yard grass [*Eleusine indica* (L.) Gaertn.]. It flowered throughout the year and could be found in almost all vacant lots, sidewalks and "islands" in the city boulevards. Next in flowering abundance was foxtail [*Pennisetum polystachyon* (L.) Schult.], classified as moderately abundant. It flowered abundantly from October to December and started to dry up in January although continuously producing flowers in smaller quantities until May. It could be found growing in large vacant lots which are not usually mowed down.

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[3] Loc. cit.

TABLE 1.— *A list of abundantly flowering grasses in the Manila area from January to December, 1970.*

Common and scientific names	Abundance	Period of greatest flowering abundance
Yard grass [*Eleusine indica* (L.) Gaertn.]	Widely	Throughout the year
Foxtail [*Pennisetum polystachyon* (L.) Schult.]	Moderately	October-December
Sand bur (*Cenchrus brownii* Roem. and Schult.)	Rarely	January-August
Bermuda grass [*Cynodon dactylon* (L.) Pers.]	Rarely	June-December
Koro-korosan [*Chloris barbata* (L.) Sw.]	Rarely	Throughout the year
Talahib (*Saccharum spontaneum* Linn.)	Rarely	September-October
Guinea grass (*Panicum maximum* Jacq.)	Rarely	October-December
Kogon [*Imperata cylindrica* (L.) Beauv.] var. *major* (Nees) C. E. Hubbard	Rarely	May-June
Java grass [*Polytrias amaura* (Buse) O. Ktze.]	Rarely	November-January

The other grasses in the list were in the rarely abundant category. Sand bur (*Cenchrus brownii* Roem and Schult.) was abundant in vacant lots in Intramuros and along Roxas Boulevard especially from January to August. Bermuda grass [*Cynodon dactylon* (L.) Pers.] could be found growing abundantly in a few vacant lots along Roxas Boulevard and along sidewalks in other parts of the city. It flowered throughout the year but more abundantly from June to December. Koro-korosan [*Chloris barbata* (L.) Sw.] was found in drier areas in the city throughout the year but did not occur in abundance except in Tondo. Talahib (*Saccharum spontaneum* Linn.) flowered abundantly throughout the city from September to October. Guinea grass (*Panicum maximum* Jacq.) flowered throughout the year but most abundantly from October to December, particularly in Intramuros. Kogon [*Imperata cylindrica* (L.) P. Beauv. var.

major (Nees) C. E. Hubbard] could be found flowering abundantly in some vacant lots along Roxas Boulevard from May to June while Java grass [*Polytrias amaura* (Büse) O. Ktze.] was found flowering among taller grasses from November to January.

DISCUSSION OF RESULTS

In this survey of the Manila area, we found that there were very few extensively vegetated areas in the city with free growth of grasses and these were vacant lots along Roxas Boulevard, in Intramuros and La Loma Cemetery. Other zones had only a few vacant lots with dense vegetation.

A comparison can be made between the results of this field survey and that of Payawal and Laserna in 1961-62 of the Manila area. It must be clarified beforehand, however, that the terms widely, moderately, and rarely abundant should be taken relatively since the extent of vegetation now is not the same as before. Furthermore, the classification used in the previous survey was based on abundant growth while the present authors considered abundant flowering as the basis of classification.

Yard grass, formerly widely abundant, remained in its former category, being the most abundant flowering grass in the area in 1970. Likewise, foxtail too remained in its previous category being moderately abundant. Bermuda grass and talahib, formerly widely abundant, both became rarely abundant. Probably the small size of bermuda grass prevented it from retaining its dominance since it could easily be overshadowed by larger species. The decrease in abundance of talahib, on the other hand, may be attributed not to its diminished growth but to its short span of flowering, the only period when its abundance was considered. Kogon and Java grass, both included among the moderately abundant species previously, became rarely abundant. The former might have diminished due to the decreased areas of vegetation while the latter might have been overshadowed, like Bermuda grass, by larger species. Sand bur, koro-korosan and guinea grass were not mentioned in the previous paper but were found to be rarely abundant during the recent survey. A study of the data from the previous survey showed that they ranked next to those species mentioned in the paper. They are probably more adapted to present conditions than those other species.

Some plants such as Para grass, luya-luyahan, ganit-ganit, joist grass and carabao grass found to be moderately abundant in earlier studies and the three rarely abundant species such as Johnson grass, barnyard grass and rice were not found in abundance at all during the present survey. Para grass still grew abundantly in swampy places, but it did not flower in abundance since it was constantly being cut down. Luya-luyahan, ganit-ganit, joist grass, carabao grass and Johnson grass were found in a few collection stations but their abundance was not enough to merit inclusion in the list. Barnyard grass was found growing rarely in canals while rice was not being cultivated anymore in the city.

With the decreasing vegetation in the Manila area, extensive field surveys will no longer be necessary; instead, occasional reconnaissance trips will be adequate to observe any changes that might occur. It is recommended, however, that such field surveys be extended to neighboring areas since they are also likely sources of pollen pollutants in the area.

ACKNOWLEDGMENT

The authors are grateful to the botanists of the National Museum for their technical assistance, to the drivers of NIST, to Mr. Delfin Castillo and Mr. Antonio Balotro for accompanying us in the survey, and to Mr. Jaime Banaag for reviewing the manuscript.

AERO-PALYNOLOGICAL STUDIES IN THE MANILA AREA, 1970

By Irma C. Remo and Gloria Laserna
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ABSTRACT

This study was conducted to determine the presently prevailing atmospheric pollen grains in the Manila area and to compare the results with those of Payawal and Laserna (1966) in 1963. The predominant pollen types found were the same and these were Gramineæ, Moraceæ, Leguminosæ, Myrtaceæ, and Cyperaceæ. There was, in general, a decrease in pollen count in 1970 due to decreased vegetation in the area and some variations in pollen deposition patterns attributed to slight variations in climatological factors.

INTRODUCTION

The purpose of this study is to determine the presently prevailing atmospheric pollen grains in the Manila area and to compare the results with those of Payawal and Laserna (1966) in 1963. From their observations, they made a list of the predominant atmospheric pollen types and their corresponding deposition patterns throughout the year. Our present study would show whether such pollen types are still prevalent and whether variations in deposition patterns have occurred. It is expected that while the periods may vary a little from year to year depending on the weather, the variation is not marked and the order in which pollination occurs is unchanged (Cooke, 1947).

From these and similar studies (Remo and Laserna, 1970), a pollen calendar which lists the onset and offset of pollination of common grasses, weeds and trees can be made for this area. Pollen fluctuations may then be correlated with the patients' symptoms thus leading to the identification of the most probable cause of the allergy.

MATERIALS AND METHODS

This study was conducted from January 5, 1970 to January 4, 1971. Standard Durham gravity slide samplers were installed on the roofs of (*1*) Bagong Buhay Elementary School opposite La Concordia College, and (2) Centro Escolar University Women's Dormitory. The methods of exposure, collection and examination of slides were the same as that used in the Makati area (Remo and Laserna, 1970).

TABLE 1.—*Average pollen incidence of different pollen types per* cm^2 *slide surface in the Manila area from January* 1970 *to January* **1971**.

Pollen type	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept	Oct.	Nov.	Dec.	Annual total
Gramineæ	25	18	12	7	3	6	3	3	7	8	14	22	128
Moraceæ	2	6	22	14	11	5	2	1	2	—	—	1	66
Leguminosæ	2	3	14	5	3	3	8	1	1	4	4	4	52
Myrtaceæ	9	1	6	17	2	2	2	—	—	—	—	1	40
Cyperaceæ	1	—	—	—	—	6	5	—	—	1	—	1	14
Cruciferæ	1	5	5	2	—	—	—	—	—	—	—	—	13
Casuarinaceæ	—	—	—	1	—	—	3	—	8	—	—	—	12
Umbelliferæ	—	—	2	5	1	—	1	—	—	—	—	—	9
Tiliaceæ	1	1	1	1	1	—	1	1	—	—	—	—	7
Amaranthaceæ	—	1	1	1	—	—	1	—	1	—	—	—	5
Compositæ	1	1	—	—	—	—	1	—	—	—	—	—	3
Unidentified	15	17	7	23	8	2	2	2	1	2	1	5	85
Monthly total	57	53	70	76	29	24	29	8	20	15	19	34	434

RESULTS

The pollen grains encountered in the order of decreasing abundance as shown in Table 1 were Gramineæ, Moraceæ, Le-

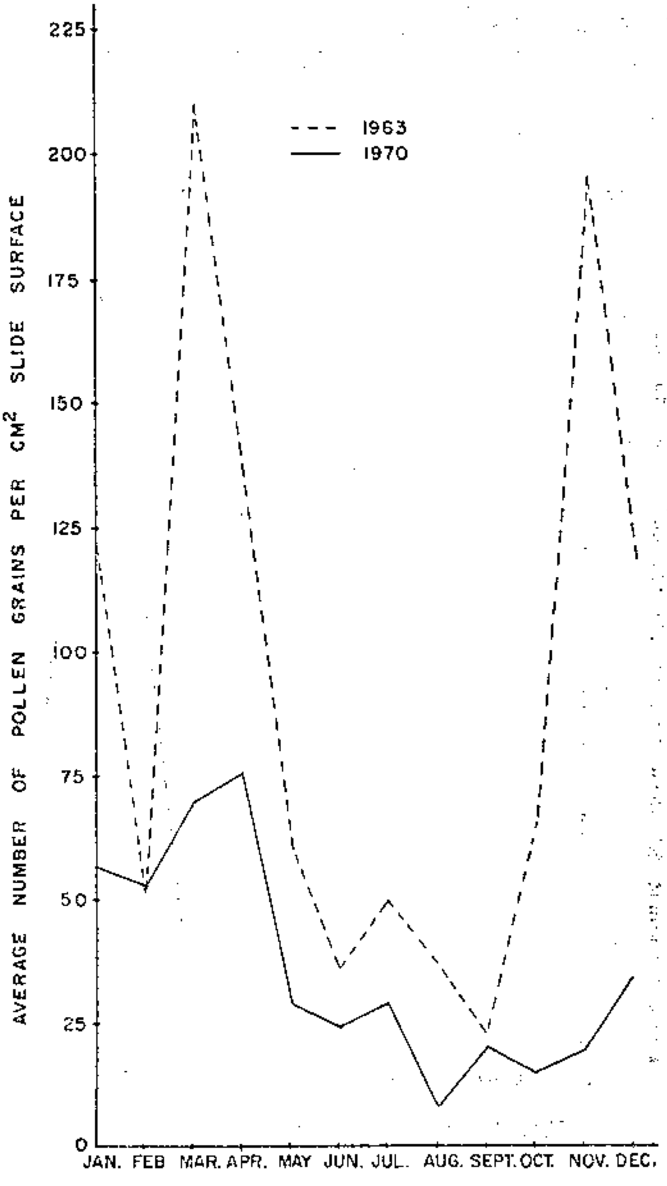

FIG. 1. Graph of the monthly averages of total pollen count for 1963 and 1970.

guminosæ, Myrtaceæ, Cyperaceæ, Cruciferæ, Casuarinaceæ, Umbelliferæ, Tiliaceæ, Amaranthaceæ, and Compositæ. There were forms unidentified.

Total pollen deposition was highest in April with a total count of 76 pollen grains per cm^2 and least in August with eight pollen grains per cm^2. The pattern of total pollen deposition for the whole year was as follows: It started at a high level in January, decreased in February, increased in March

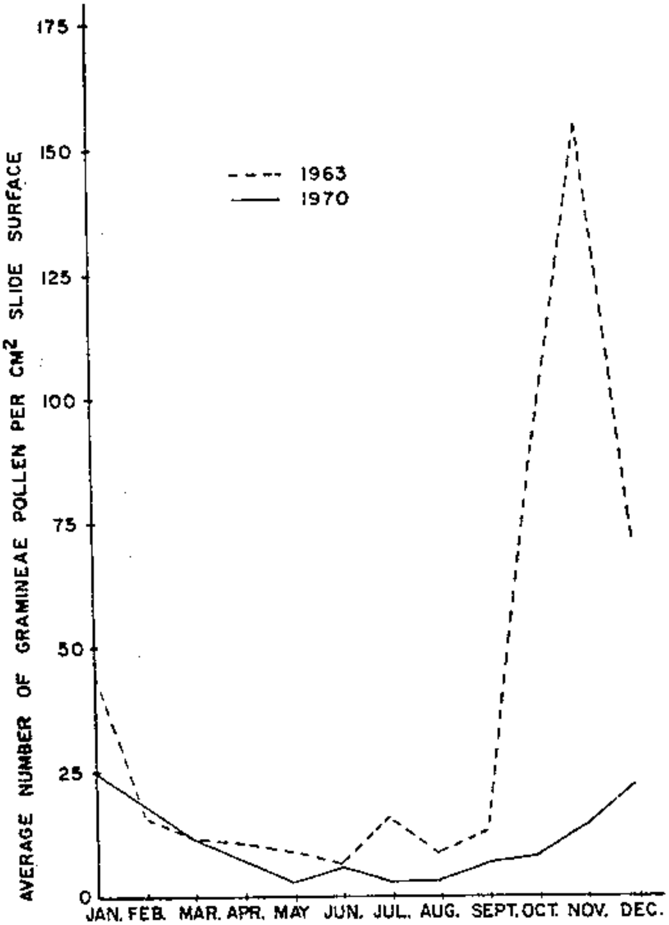

FIG. 2. Graph of the monthly averages of Gramineæ pollen for 1963 and 1970.

until it reached the maximum peak in April. It declined rapidly in May, fluctuated at a low level until it reached the minimum in August. It fluctuated again at a low level from September to November and rose in December (Fig. 1.).

Gramineæ was the most abundant pollen type especially in January with a total annual count of 128 pollen grains per cm^2. The species that might be responsible for this were *Eleusine indica* (L.) Gaertn. (yard grass), *Pennisetum polystachyon* (L.) Schult. (foxtail), *Cenchrus brownii* Roem. and Schult. (sand bur), *Cynodon dactylon* (L.) Pers. (Bermuda grass), *Chloris barbata* (L.) Sw. (koro-korosan), *Saccharum spontaneum* Linn. (talahib), *Panicum maximum* Jacq. (guinea grass), *Imperata cylindrica* (L.) P. Beauv. var. *major* (Nees) C. E. Hubbard (kogon), and *Polytrias amaura* (Büse) O. Ktze. (Java grass) (Remo and Laserna, 1972). Its pattern of deposition was such that it started at a maximum peak in January, dec-

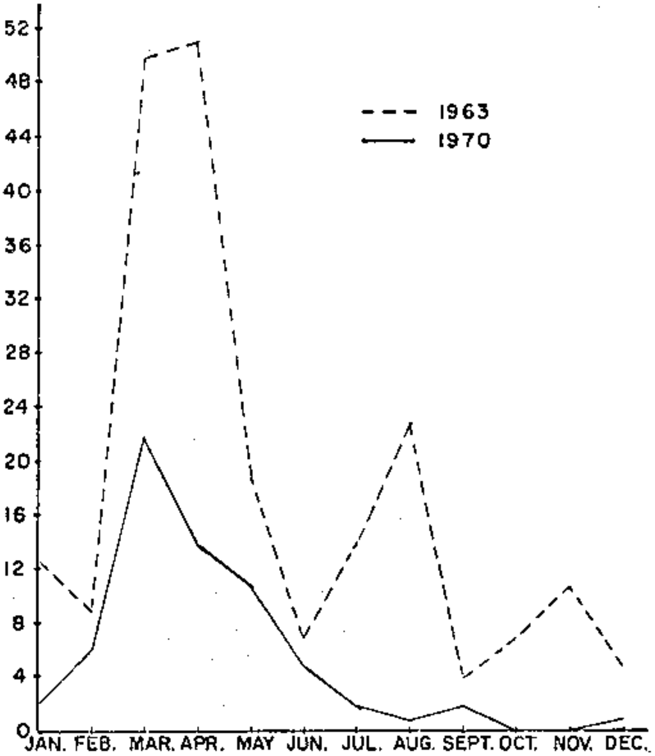

FIG. 3. Graph of the monthly averages of Moraceæ pollen for 1963 and 1970.

lined gradually until May, fluctuated at a very low level from May to August, reached its minimum in August and rose gradually the rest of the year (Fig. 2).

Moraceæ ranked second with an annual count of 66 pollen grains per cm^2 and was most abundant in March. It started at a low level of deposition in January, rose and reached its peak in March and declined the rest of the year (Fig. 3).

Leguminosæ ranked 3rd with a total annual count of 52 pollen grains per cm^2. It started at a low level in January, rose and reached the highest peak in March, declined but rose to a minor peak in July, declined to its minimum in August and September, rose in October and leveled at a relatively low level the rest of the year (Fig. 4).

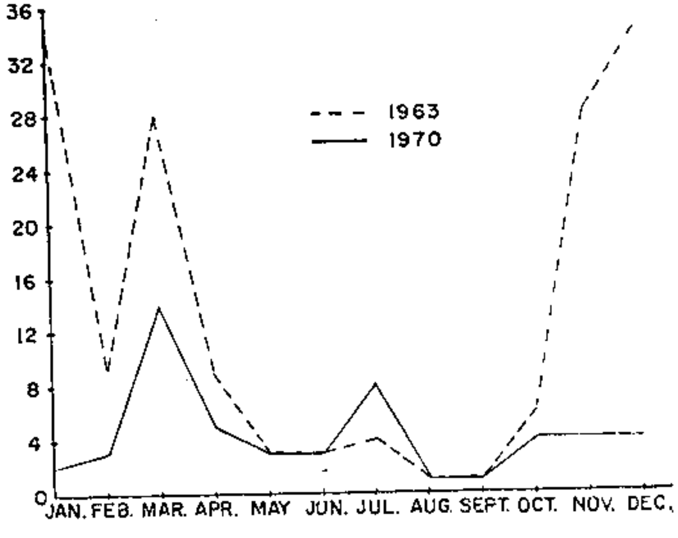

FIG. 4. Graph of the monthly averages of Leguminosæ pollen for 1963 and 1970.

Myrtaceæ ranked 4th with a total of 40 pollen grains per cm^2 for the whole year and its period of greatest abundance was in April. It started at a relatively high level in January, declined in February, rose and reached its peak in April and declined the rest of the year (Fig. 5).

Cyperaceæ had a total annual count of 14 pollen grains per cm^2. It was almost nil throughout the year except in June and July (Fig. 6).

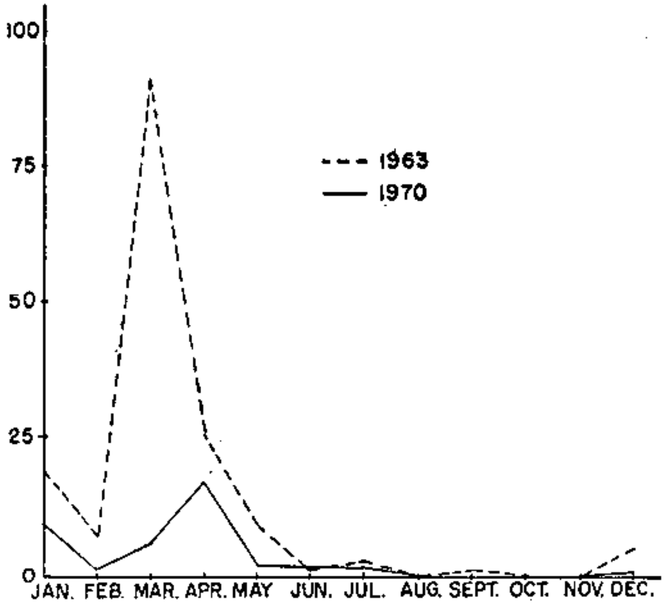

FIG. 5. Graph of the monthly averages of Myrtaceæ pollen for 1963 and 1970.

Other pollen grains found and their period of greatest abundance were Cruciferæ in February and March and Casuarinaceæ in September; Tiliaceæ, Amaranthaceæ and Compositæ were found sparingly throughout the year. Unidentified pollens were most abundant in April.

The plant species that might be responsible for these pollen types have been listed down in previous papers (Payawal and Laserna, 1966) and (Remo and Laserna, 1970).

DISCUSSION OF RESULTS

Comparing the results of 1963 and 1970, we observe that the predominant pollen grains were the same and these were Gramineæ, Moraceæ, Leguminosæ, Myrtaceæ, and Cyperaceæ. However, there was, in general, a decrease in pollen count in 1970 and some slight variations in pollen deposition patterns as shown in Figures 1-6.

In 1963, maximum total pollen deposition occurred in March while in 1970, it was in April. There was another peak in November in 1963 while in 1970 total pollen count fluctuated at a low level the rest of the year. For Gramineæ, a high peak in

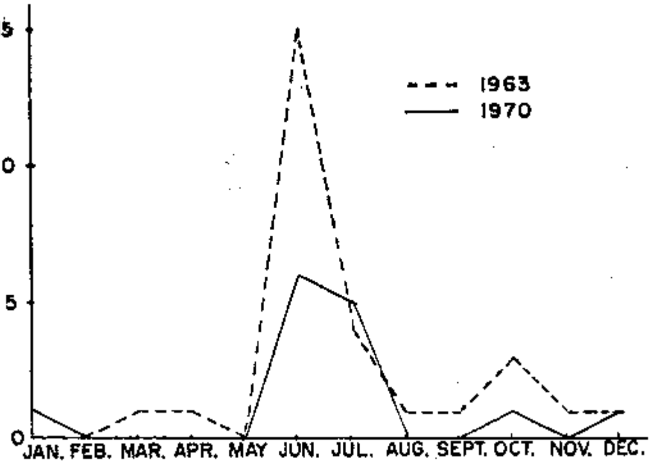

FIG. 6. Graph of the monthly averages of Cyperaceæ pollen for 1963 and 1970.

1963 occurred in November while in 1970 the highest counts occurred in January and December. Moraceæ, in 1963, had high counts in March and April but in 1970 there was only one relatively low peak in March. In 1963, high pollen deposition of Leguminosæ occurred in January and December with another high peak in March while in 1970 maximum deposition occurred in March with a minor peak in July. The pattern of deposition for Myrtaceæ and Cyperaceæ were practically the same in both years. For Myrtaceæ, however, the peak occurred in April in 1970 instead of March as in 1963. In the case of Cyperaceæ, July was the month of highest pollen deposition in both years.

In a previous paper (Remo and Laserna, 1970) the atmospheric pollen count was correlated with the vegetation and the climatological factors that affect them. The general decrease in the pollen count in 1970 can be attributed to the considerable decrease in vegetation in the Manila area due to its development and urbanization. The changes in the pollen deposition patterns on the other hand, may be attributed to variations in the climatological factors such as rainfall, humidity, temperature, wind velocity and direction and cloudiness. Table 2 gives the climatological data for 1970. Generally, there was an increase in rainfall and mean temperature and a decrease in humidity in 1970 and the resultant of these factors may be responsible for the variations in pollen deposition patterns.

TABLE 2.—*Monthly summaries of meteorological observations made at Weather Bureau Office, Port Area, Manila from January to December*, 1970.

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Mean temperature (°C)	26.3	26.3	28.3	29.3	30.0	28.3	27.5	27.3	27.4	27.6	27.7	—
Mean relative humidity (per cent)	71	70	67	63	63	77	79	84	81	78	79	—
Total rainfall (min.)	5.9	0.3	2.6	11.8	44.5	163.7	425.4	358.6	885.1	258.5	97	—
Prevailing wind direction	NNW	NNW	SSE	SSE	SSE	W,SSW	SW	SW	SW	W	NNE	NE
Mean wind speed (Kts).	6	7	8	7	7	6	7	9	7	6	7	6
Mean cloudiness	6	5	5	6	6	8	8	9	9	8	8	7

From the results of 1963 and 1970 and from that of the Makati area in 1968-69 (Remo and Laserna, 1970), we can conclude that there are two main pollinating seasons in these areas, one in March and April consisting mostly of tree and weed pollens and another in November, composed mostly of grass pollens. There is generally a low pollen count from June to September. The periods of greatest abundance of the predominant pollen grains are as follows: Gramineæ, November to January; Moraceæ, March to April and occasionally in January and May; Leguminosæ, March and occasionally in January, July and December; Myrtaceæ, March to April and occasionally in January and May; Cyperaceæ, June to July and occasionally in October.

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ALGAL SPECIES REPORTED FROM THE PHILIPPINES*

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The history of phycology in the Philippines (Velasquez, 1962) was initiated by several visits of foreign oceanographic explorations before any of the local algæ was mentioned in literature. Long before historical time, however, the coastal inhabitants used several marine algæ as parts of their livelihood. They were rarely aided by any of the economic and social improvement schemes found in inland towns and their old usages still persist.

Elsewhere in Southeast Asia, Rumphius (1750) was among the first to publish information that can be considered scientific in reference to the seaweeds. Merril (1917) later published his interpretation of the Herbarium Amboinense of Rhumphius. In the Philippines, the first publication identifying the algæ was Father M. Blanco's *Flora de Filipinas* issued in two editions; namely, 1837 and 1845. A third posthumous edition was completed by Fr. I. Mercado and Fr. A. Llanos in 1877 to 1883. This is considered the beginning of Philippine phycology as a science. Fr. Blanco proposed several names for new species in his first edition of 1837, later replaced a name, *Fucus gulaman* Blanco, with *Fucus edulis* in the second edition. Other revisions were made later by other botanists.

In 1918 Merrill published a discussion of the different Blanco species giving them identifications in modern terms where this was possible. Indeed it is discouraging to note that Blanco did not advance much our knowledge of the algæ. The names were by no means as reliable as the names given by other contemporaries in the other parts of the world. Phycologists were very few and their lives were spent mostly on the European continent. The Philippines was in isolation with very limited communication to the outside world in both botanical sciences and other forms of investigation.

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A. von Chamisso, botanist of the Romanzoff Exploring Expedition (1817-1818) collected *Corallopsis salicornia* specimens from Manila when the Russian ship *Rurik* was forced to seek shelter in Manila harbor due to a storm in the Pacific. Very much later (1953) E. Y. Dawson had an opportunity to pass Manila after studying the algæ at Nha Trang, Vietnam. He collected specimens from Manila harbor which were identical to the type specimen of *Corallopsis salicornia* collected by Chamisso. Examination of the internal structure showed that the topotypic specimen collected by Dawson was a *Gracilaria,* thus Dawson (1954) transferred *Corallopsis salicornia* to *Gracilaria,* naming it *Gracilaria salicornia* (Ag.) Dawson.

The first reliable work on the marine algæ of the Philippines would seem to be George von Marten's publication resulting from the Prussian East Asia Expedition of 1866. Not only did Martens looked into the identity of Blanco's species but he also compiled an elaborate table to show the known geographical distribution of all the algæ that were reported or described from Tropical Asia and the Tropical Pacific. Two freshwater green algæ; namely, *Cladophora diluta* and *C. luzoniensis* were described as new species. Practically all the Philippine marine algæ listed by Martens were considered to have been described previously although many were additional records from various localities.

A few names for Philippine algæ were also added by the American Exploring Expedition (1851) under the command of Charles Wilkes. Since there was no specialist on the lower plants among the naturalists of the expedition, the collection of algæ was meager. There were two lists from the studies of J. Bailey and W. Harvey (1851), one list reported a new name, *Dictyota dichotoma,* among the other large forms of red and brown algæ. A longer list (also 1851) contained new species of diatoms considered to be a part of the Philippine marine flora in as much as they were epiphytes of the larger marine algæ collected from Morongas Island across a narrow strait in the northeastern coast of Jolo.

Hugh Cuming, an English resident of Manila during the later part of the Spanish regime up to the American occupation made very extensive collections of algæ. From Cuming's algal collections which were named, four species were described by C. Montagne (1844) from materials distributed by the Kew Gardens in London. Elmer Merril was able to get some duplicates of these specimens when he was expanding the botanical collections of the Bureau of Science herbarium in Manila. This herbarium was destroyed during World War II. The Philippine algæ collected by the famous Challenger Expedition were studied by Dickie in 1876 and 1877. The specimens were presumably deposited in the English herbaria and most likely can be found in the British Museum. A. Piccone (1886) and later (1889) added more species to the records of the Philippine algæ.

In the beginning of the twentieth century, early in the American period, the Dutch Siboga Expedition did extensive dredging and collecting of algæ in the Sulu Sea in the southern part of the Philippines. The algal results of the expedition were published in seven monographs; namely, that on the genus *Halimeda* (Barton, 1901); the Corallinaceæ (Weber van Bosse & Foslie, 1904); the Codiaceæ (A. & E. S. Gepp, 1911); and those of Weber van Bosse's work on other groups under the title "Liste des algues du Siboga" which were published in four parts as Monographs 59a (1913), 59b (1921), 59c (1923) and 59d (1928).

These seven Siboga monographs on the algæ have been very useful as basic references of students, teachers and researchers working with the Philippine marine algæ. The specimens are deposited in the Riksherbarium in Leiden, the Netherlands and elsewhere in Europe. The Siboga Expedition was the last of the oceanographic expeditions which furnished significant reports on the Philippine algæ.

On the other hand, the accumulation of algæ during the first three decades beyond 1900 showed the unusual diligence of the pioneers of Philippine Botany. Their collections of algæ were made while they were collecting plants for their own primary studies. Especially diligent among them were R. McGregor, E. Quisumbing, C. Robinson, E. Merrill, E. Fenix, and A. Elmer. Luckily a large part of these algal collections was sent abroad as exchange materials or on loan prior to the outbreak of World War II; so they are still to be found in various herbaria outside the Philippines. Otherwise, these too would have been burned early in 1945 during the war.

In 1935 H. Bartlett, an exchange professor in the Department of Botany, University of the Philippines, made an extensive and systematic collection of the marine algæ of the country. Duplicate specimens of his collection were sent to the University of Michigan while the rest of them were left in the Department of Botany. These were burned during the 1945 liberation of Manila. The huge collection of the Chlorophyceæ at the University of Michigan was studied by W. J. Gilbert (1942, 1943, 1946, 1947) for his doctoral dissertation under the direction of Wm. R. Taylor, then professor of botany in that University. In 1959, Gilbert published a checklist of all the species of Chlorophyta reported as occurring in the Philippines. Six chlorophytan species not previously reported in the Philippines were later reported by Gilbert and Doty (1969). The species of the genus *Galaxaura* were studied by Ruth Chou (1945, 1947) who cites Philippine materials in her monograph of the Pacific species of *Galaxaura*.

Soon after World War II, G. T. Velasquez made a general collection of the fresh-water and marine algæ. These collections were made at 14 major collecting stations in the country during spare time from his regular teaching at the University of the Philippines. The collections are presently deposited in the Department of Botany at the University; although a good number of the specimens mostly of the bluegreen algæ were sent as exchange materials to several cryptogamic herbaria abroad. Several papers based on these materials were published in scientific journals both local and abroad (Velasquez 1950, 1951, 1952, 1952a, 1953, 1955, 1968).

A significant contribution to Philippine phycology is Walter Shaw's (1919-1922) publications of four new genera of Volvocaceæ; namely, *Merrillosphaeria, Copelandosphaeria, Campbellosphaeria* and *Janetosphaeria*. That of Velasquez's The Bluegreen Algæ of the Philippines (1962) described and gave the geographical and ecological distributions of 162 species and varieties. Thirty-four species were collected from salt and brackish habitats. This publication is by far the most comprehensive study on the Myxophyceæ of the Philippines and is considered the best reference for this group in this part of the world according to Cordero (1972). Velasquez's publication (1952b) on the fresh-water algæ with special attention to the bluegreen species appearing as a result of pollution will go a long way to help in the solution of the worldwide problems of pollution.

From 1952 onwards several graduate students in the Department of Botany, University of the Philippines, worked on the algæ for their theses for the degree, Master of Science in Botany (Soriano and Velasquez, 1952; Medina, 1955; Galutira and Velasquez, 1963; Cornejo and Velasquez, 1971). Investigative and other studies on the algæ have always been encouraged, not only in the University of the Philippines but also in other institutions (Meñez, 1961; Domantay, 1961; Taylor, 1962; Velasquez *et al*, 1971; Trono, 1956, 1961). Studies on the algæ have been introduced as parts of the curriculum in many Philippine colleges and universities.

This effort is towards the end that the roles of the algæ in nature become known in respect to their contributions not only to the general body of academic scientific knowledge but also as they contribute to the betterment of mankind. Detailed knowledge of the algæ should lead to their ecologic populations being controlled where they are injurious to man as well as when they are useful, as in brackish fishponds. As an example of the latter, they are valued as food resources for the milkfish, *Chanos-chanos* (Villadolid and Villaluz, 1953), which has a long history of cultivation in ponds in the Philippines. Presently (Doty, 1969) the red alga, *Eucheuma* is proving valuable in enhancing the foreign monetary exchange position of the nation. Possible (Santos and Doty, 1968) *Caulerpa* as well as *Gracilaria, Hypnea* and other genera will soon do so likewise.

The following list includes, as far as the authors are aware, all records of algæ, both fresh and marine species that have been previously reported from within the Marsden Statistical Rectangles 24, 24, 60 and 61, and located specifically within the geographical boundaries demarcated by 40°21' to 20°25' North latitude and 116°00' to 127°00' East longitude. The list includes, therefore, the names of the species that have been reported from considerable portions of the sea around the Philippines; some of them not actually being from within the political boundaries of the country. The rationale behind such arbitrary limits is based on the premise that the algæ are hardly respectful of political boundaries. Furthermore, it is of considerable interest and importance to know what has been reported in the areas neighboring the Philippines proper.

Very careful consideration was given in determining which of the several thousand reports of the different species should be included in the list and the specific geographical areas as delimited above was made the sole basis of our decision. The list includes information on the 850 species so far recorded from within this specific area.

The binomials for the different species have been arranged alphabetically for convenience. Under each binomial, information on the locality from which the species has been reported is given if such is available from the literature. In cases where no specific localities are mentioned in the literature, and if such reports are within the arbitrary geographical limits as delimited above, the name "Philippines" is used instead. Each of the localities from which a species has been recorded is followed by the name of the author who reported or recorded the species and the year the paper was published. The last two items, i.e., the name of the author and the year of publication, are enclosed in parenthesis for each case. Under each binomial, one or more names of localities, authors, and dates of publication are listed, based on the number of reports or records for each species. A complete bibliography of all the papers cited in both the introduction and the main text is included to make this paper more useful.

The authors realize that this paper is merely an index to the literature on Philippine algæ but they hope it will promote and encourage interest on the part of others through drastically reducing the time and work that normally accompanies the initiation of floristic and ecological studies. It should be a useful guide to those wishing biogeographic information on the algæ of this region whether their interest is in completing the floristic information on the Philippines or knowing it relative to the floras of the other parts of the world. The records herein for fresh-water spceies must be very incomplete. The interest of the authors being primarily in the marine species has led them to a much greater diligence in searching the literature for records of marine species. It is certain that many records have been overlooked.

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BINOMIAL LIST

ACANTHOPHORA ORIENTALIS
Manila (Heydrich 1894), Panay (Howe 1932), Cavite. (Piccone 1866), Hundred Is. (Domantay 1961).

ACANTHOPHORA SPICIFERA
Sulu (Weber van Bosse 1923), Hundred Is. (Domantay 1961), Dumaguete (Reyes 1970).

ACANTHOPHORA THIERII
Philippines (Montagne 1844).

ACANTHOPHORA THIERRYI
(Philippines (Martens 1866).

ACETABULARIA CALYCULUS
Philippines (Gilbert 1959), Philippines (Gilbert 1946), Cebu (Dickie 1876).

ACETABULARIA DENTATA
Dalupiri Is. (Gilbert 1943), Philippines (Gilbert 1959), Mangagoy (Gilbert & Doty 1969), Dumaguete (Reyes 1970).

ACETABULARIA MAJOR
Hundred Is. (Domantay 1961), Philippines (Howe 1932), Cebu (Gilbert 1959), Sta. Cruz (Gilbert 1943), Subic Bay (Gilbert 1943), Lucap Bay (Gilbert & Doty 1969), Bato (Gilbert & Doty 1969), Hundred Is. (Meñez 1961), Philippines (Gilbert 1946).

ACETABULARIA MINUTISSIMA
Hundred Is. (Meñez 1961).

ACETABULARIA PHILIPPINENSIS
Philippines (Gilbert 1959), Taytay (Gilbert 1943), Anda Is. (Taylor 1966), Puerto Princesa (Taylor 1966).

ACHNANTHES CRENULATA
Taal (Hustedt 1942), Buhi (Hustedt 1942), Lanao (Hustedt 1942).

ACHNANTHES EXIGUA
Lyon (Hustedt 1942), Los Baños (Hustedt 1942), Laguna Bay (Hustedt 1942), Buhi (Hustedt 1942), Danao (Hustedt 1942), Lanao (Hustedt 1942), Uyaan (Hustedt 1942).

ACHNANTHES FLEXELLA
Laguna Bay (Hustedt 1942).

ACHNANTHES HUNGARICA
Philippines (Hustedt 1942), Buhi (Hustedt 1942).

ACHNANTHES INFLATA
Buhi (Hustedt 1942), Lanao (Hustedt 1942), Seit (Hustedt 1942).

ACHNANTHES CRENULATA
Laguna Bay (Hustedt 1942).

ACHNANTHES LANCEOLATA
Manila (Hustedt 1942), Laguna Bay (Hustedt 1942), Danao (Hustedt 1942), Lanao (Hustedt 1942).

ACHNANTHES MICROCEPHALA
Los Baños (Hustedt 1942), Uyaan (Hustedt 1942).

ACHNANTHES MINUTISSIMA
Laguna Bay (Hustedt 1942), Manila (Hustedt 1942), Los Baños (Hustedt 1942), Danao (Hustedt 1942), Lanao (Hustedt 1942), Bratan (Hustedt 1942).

ACHNANTHES SIMPLEX
Laguna Bay (Hustedt 1942), Manila (Hustedt 1942).

ACHNANTHES SIMPLEX
Los Baños (Hustedt 1942), Naujan (Hustedt 1942), Lanao (Hustedt 1942), Singuan (Hustedt 1942).

ACROCARPUS PUSILLUS
Zamboanga (Martens 1866).

ACROCHAETIUM GRACILE
Gnat Reef, Sulu (Abbott 1962).

ACROCHAETIUM HANCOCKII
Batangas (Cornejo & Velasquez 1970).

ACROCHAETIUM LIAGORAE
Cagayan, Sulu (Abbott 1962), Gnat Reef, Sulu (Abbott 1962).

ACROCHAETIUM NITIDULUM
Gnat Reef, Sulu (Abbott 1962).

ACROCHAETIUM PAPENFUSSII
Jurata Bay, Sulu (Abbott 1962).

ACROCHAETIUM SERIATUM
Gnat Reef, Sulu (Abbott 1962).

ACROCHAETIUM TRICHOGLOEAE
Jurata Bay, Sulu (Abbott 1962).

ACROCHAETIUM TUTICORINENSE
Gnat Reef, Sulu (Abbott 1962).

ACTINOTRICHIA FRAGILIS
Dumaguete (Reyes 1970).

ACTINOTRICHIA RIGIDA
Zamboanga (Dickie 1876), Philippines (Montagne 1844), Philippines (Weber van Bosse 1921).

AGMENELLUM THERMALE
Dagat-dagatan (Drouet & Daily 1956).

AMANSIA GLOMERATA
Hundred Is. (Domantay 1961), Philippines (Weber van Bosse 1923); Dumaguete (Reyes 1970).

AMPHIPLEURA RUTILANS
Singuan (Hustedt 1942).

AMPHIPLEURA LINDHEIMERI
Luzon (Hustedt 1942).

AMPHIROA ANNULATA
Hundred Is. (Domantay 1961).

AMPHIROA CUMINGII
Zamboanga (Dickie 1876), Philippines (Montagne 1844), Philippines (Martens 1866).

AMPHIROA FOLIACEA
North Ubian (Weber & Foslie 1904).

AMPHIROA FRAGILISSIMA
Mactan Is. (Dickie 1876), Hundred Is. (Domantay 1961), Philippines (Howe 1932), Dumaguete (Reyes 1970).

AMPHIROA PACIFICA
Zamboanga (Martens 1866).

AMPHIROA SUBCYLINDRICAL
Hundred Is. (Domantay 1961).

AMPHITETRAS FAVOSA
Philippines (Bailey 1853), Mindanao (Bailey & Harvey 1862).

AMPHORA FONTINALIS
Lanao (Hustedt 1942).

AMPHORA LIBYCA
Philippines (Bailey 1853), Mindanao (Bailey & Harvey 1862).

AMPHORA MONTANA
Manila (Hustedt 1942), Los Baños (Hustedt 1942), Lanao (Hustedt 1942).

AMPHORA NORMANI
Taal (Hustedt 1942).

AMPHORA OVALIS
Laguna Bay (Hustedt 1942), Taal (Hustedt 1942), Buhi (Hustedt 1942), Manila (Hustedt 1942), Los Baños (Hustedt 1942), Naujan (Hustedt 1942).

AMPHORA SUBTURGIDA
Laguna Bay (Hustedt 1942), Naujan (Hustedt 1942), Singuan (Hustedt 1942).

ANACYSTIS AERUGINOSA
Puerto Princesa (Drouet & Daily 1956), Tangalan (Drouet & Daily 1956), Puerto Galera (Drouet & Daily 1956), Saleyer (Drouet & Daily 1956).

ANACYSTIS CYANEA
Pasig River (Drouet & Daily 1956), Laguna Bay (Drouet & Daily 1956).

ANACYSTIS DIMIDIATA
San Isidro (Drouet & Daily 1956), Big Balatero (Drouet & Daily 1956), Jolo (Drouet & Daily 1956).

ANACYSTIS MONTANA
Malate (Drouet & Daily 1956), Rizal (Drouet & Daily 1956), Manila (Drouet & Daily 1956), Sampaloc (Drouet & Daily 1956), Ermita (Drouet & Daily 1956), Marikina (Drouet & Daily 1956), Dagat-dagatan (Drouet & Daily 1956), Tabinay Maliit (Drouet & Daily 1956), Bisayaan (Drouet & Daily 1956), Big Balatero (Drouet & Daily 1956), Araceli (Drouet & Daily 1956), Coron (Drouet & Daily 1956), Cuyo (Drouet & Daily 1956), Iloilo City (Drouet & Daily 1956), Loganes (Drouet & Daily 1956), Pototan (Drouet & Daily 1956), Passi (Drouet & Daily 1956), San Jose (Drouet & Daily 1956), Busbos (Drouet & Daily 1956), Liroeng (Drouet & Daily 1956).

ANACYSTIS THERMALIS
Cavite (Drouet & Daily 1956), Sta. Ana (Drouet & Daily 1956), Gelinos (Drouet & Daily 1956), Ermita (Drouet & Daily 1956), Marikina (Drouet & Daily 1956), San Nicolas (Drouet & Daily 1956),

Tacloban (Drouet & Daily 1956), Cabatuan (Drouet & Daily 1956), Bungao (Drouet & Daily 1956).

ANADYOMENE BROWNII

Balabac Is. (Taylor 1966), Taganak Is. (Taylor 1966).

ANADYOMENE ESEPTATA

Dalupiri Is. (Gilbert 1959).

ANADYOMENE FLABELLATA

Sta. Cruz Is. (Dickie 1876)

ANADYOMENE LECLANCHERII

Philippines (Gilbert 1959), Philippines (Gilbert 1946).

ANADYOMENE PLICATA

Philippines (Gilbert 1959, Sta. Cruz (Gilbert 1959), Lubang Is. (Gilbert 1959), Sabang (Gilbert 1959), Lubang Is. (Taylor 1966).

ANADYOMENE STELLATA

Philippines (Gilbert 1959), Philippines (Gilbert 1946), Dumaguete (Reyes 1970).

ANADYOMENE WRIGHTII

Philippines (Gilbert 1959), Hundred Is. (Meñez 1961).

ANOMOEONEIS EXILIS

Los Baños (Hustedt 1942), Dagatan (Hustedt 1942).

ANOMOEONEIS SERIANS

Danao (Hustedt 1942), Uyaan (Hustedt 1942).

ANOMOEONEIS SPAEROPHORA

Laguna Bay (Hustedt 1942), Buhi (Hustedt 1942), Lyon (Hustedt 1942), Bato (Hustedt 1942), Los Baños (Hustedt 1942), Naujan (Hustedt 1942), Lanao (Hustedt 1942).

ARCHAEOLITHOTHAMNION ERYTHRAEUM

Pearl Bank (Weber & Foslie 1904), North Ubian (Weber & Foslie 1904), Pulu Tongkil (Weber & Foslie 1904), Lirung (Weber & Foslie 1904).

ARCHAEOLITHOTHAMNION SCHMIDTII

Pearl Bank (Weber & Foslie 1904).

ARCHAEOLITHOTAMNION SIBOGAE

Pearl Bank (Foslie 1901), Pearl Bank (Weber & Foslie 1904), North-Ubian (Weber & Foslie 1904).

ARCHAEOLITHOTHAMNION TIMORENSE

North Ubian (Weber & Foslie 1904).

ASPARAGOPSIS DELILEI

Philippines (Montagne 1844), Philippines (Martens 1866).

ASTERIONELLA FORMOSA

Luzon (Hustedt 1942), Lanao (Hustedt 1942).

ATTHEYA ZACHARIASI

Luzon (Hustedt 1942).

AVRAINVILLEA CAPITULIFORMIS

San Pio Quinto (Tanaka 1967).

AVRAINVILLEA ERECTA

Lucap Bay (Domantay 1961), Philippines (Gilbert 1946), Buenavista (Gilbert 1947), Kilay Is. (Gilbert 1947), Philippines (Gilbert 1959), Puerto Galera (Gilbert & Doty 1969), Hundred Is. (Gilbert & Doty 1969), Cuyo Is. (Gilbert & Doty 1969), Virac Point (Gilbert & Doty 1969), Bato (Gilbert & Doty 1969), Hundred Is. (Meñez 1961), Balabac Is. (Taylor 1966), Dumaguete (Reyes 1970).

AVRAINVILLEA OBSCURA
Benticayan (Gilbert & Doty 1969), Hundred Is. (Meñez 1961).

AVRAINVILLEA LACERATA
Philippines (Weber van Bosse 1913), Tandoyong Is. (Domantay 1961), Alaminos (Taylor 1966), Karkaralong Is. (Gepp A & Es. 1911).

AVRAINVILLEA SORDIDA
Virac Point (Gilbert & Doty 1969), Hundred Is. (Meñez 1961).

BACILLARIA PARADOXA
Buhi (Hustedt 1942).

BIDDULPHIA PANGERONI
Laguna Bay (Hustedt 1942), Trouble Crk (Hustedt 1942), Buhi Lake (Hustedt 1942), Lyon (Hustedt 1942).

BIDDULPHIA PULCHELLA
Mindanao (Bailey & Harvey 1862).

BOERGESENIA FORBESII
Currimao (Gilbert 1959), Lubang Is. (Gilbert 1959), Buenavista (Gilbert 1959), Basilan Str. (Gilbert 1959), Little Sta. Cruz Is. (Gilbert 1959), Atong Atong (Gilbert 1959), Sakul Is. (Gilbert 1959), Pangapuyan Is. (Gilbert 1959), Bolong (Gilbert 1959), Manucaan (Gilbert 1959), Panigayan (Gilbert 1959), Basilan (Gilbert 1959), Panubigan Is. (Gilbert 1959), Calayan Is. (Taylor 1966), Currimao (Taylor 1966), Belimbing (Taylor 1966); Dumaguete (Reyes 1970).

BOODLEA COMPOSITA
Dalupiri Is. (Gilbert 1959), Narvacan (Gilbert 1959), Nasugbu (Gilbert 1959), Lubang Is. (Gilbert 1959), Puerto Galera (Gilbert 1959), Paniquian Is. (Gilbert 1959), Medio Is. (Gilbert 1959), Culion Is. (Gilbert 1959), Buenavista (Gilbert 1959), Babag (Gilbert 1959), Tengolan Is. (Gilbert 1959), Langas Is. (Gilbert 1959), Sittio Pohu (Gilbert 1959), Siasi Is. (Gilbert 1959), Hundred Is. (Meñez 1961), Dumaguete (Reyes 1970).

BOODLEA VANBOSSEAE
Philippines (Weber van Bosse 1913).

BORGESENIA FORBESII
Hundred Is. (Meñez 1961).

BORNETELLA NITIDA
Philippines (Gilbert 1959), Bohol Is. (Gilbert 1943), Hundred Is. (Meñez 1961), Puerto Galera (Taylor 1966); Dumaguete (Reyes 1970).

BORNETELLA OLIGOSPORA
Taytay (Gilbert 1943), Philippines (Gilbert 1946), Lucap Bay (Domantay 1961), Tandoyong Is. (Domantay 1961), Philippines (Weber van Bosse 1913).

BORNETELLA OVALIS
Hundred Is. (Domantay 1961).

BORNETELLA SPHAERICA
Philippines (Gilbert 1959), Lubang Is. (Gilbert 1943), Sangig (Gilbert 1943), Philippines (Gilbert 1946), Hundred Is. (Domantay 1961), Puerto Galera (Taylor 1966), Bohol Is. (Taylor 1966), Philippines (Weber van Bosse 1913), Dumaguete (Reyes 1970).

BOSTRYCHIA KELANENSIS
San Pio Quinto (Tanaka 1967).

BOTRYOCARPA PROLIFERA
Sta. Cruz Is. (Dickie 1876).

BOTRYOCLADIA KUCKUCKII
Hundred Is. (Meñez 1961).

BRACHYTRICHIA QUOYI
Dumaguete (Reyes 1970).

BRYOPSIS INDICA
Mactan (Gilbert 1959), Hondura Bay (Gilbert 1959).

BRYOPSIS PENNATA
Punta Mangal (Gilbert 1959).

CALONEIS BACILLUM
Buhi (Hustedt 1942), Los Baños (Hustedt 1942).

CALONEIS BACILLUM
Naujan (Hustedt 1942), Lanao (Hustedt 1942), Uyaan (Hustedt 1942).

CALONEIS SILICULA
Laguna Bay (Hustedt 1942), Buhi (Hustedt 1942), Manila (Hustedt 1942).

CALOTHRIX EPIPHYTICA
Batangas (Cornejo & Velasquez 1970).

CALOTHRIX VIGUIERI
Batangas (Cornejo & Velasquez 1970).

CAMPELLOSPHAERA OBVERSA
Pasay (Shaw 1919).

CAMPYLODISCUS CLYPEUS
Luzon (Hustedt 1942).

CAMPYLODISCUS KUTZINGII
Philippines (Bailey 1853), Mindanao (Bailey & Harvey 1862).

CARPACANTHUS CYSTOPHYLLUS
Manila (Martens 1866).

CARPACANTHUS GAUDICHAUDII
Manila (Martens 1866).

CARPACANTHUS ILICIFOLIUS
Manila (Martens 1866), Mindoro (Martens 1866).

CARPACANTHUS MICROCYSTIS
Manila (Martens 1866), Zamboanga (Martens 1866).

CARPACANTHUS SPINULOSUS
Manila (Martens 1866).

CARPOPELTIS CAPITELLATA
Philippines (Weber van Bosse 1921).

CAULERPA BRACHYPUS
Tandoyong Is. (Domantay 1961), Sibutu Is. (Taylor 1966).
Atong Atong (Gilbert 1959), Pangapuyan Is. (Gilbert 1959), Gavilan Pt. (Gilbert 1959), Little Sta. Cruz Is. (Gilbert 1959).

CAULERPA CLAVIFERA
Zamboanga (Dickie 1876), Philippines (Howe 1932).

CAULERPA CRASSIFOLIA
Philippines (Gilbert 1959), Philippines (Gilbert 1946), Philippines (Gilbert 1941), Hundred Is. (Meñez 1961), Philippines (Weber van Bosse 1913).

CAULERPA CUPRESSOIDES
Puerto Galera (Gilbert 1959), Tandoyong Is. (Domantay 1961), Panakalan Is. (Domantay 1961), Hundred Is. (Domantay 1961), Puerto Galera (Gilbert 1941), Little Sta. Cruz Is. (Gilbert 1959),

Boboh (Gilbert 1959), Dumaguete (Reyes 1970).

CAULERPA ELONGATA

Philippines (Weber van Bosse 1913).

CAULERPA FASTIGIATA

Landang (Gilbert 1959), Sangbon Is. (Gilbert 1959), Luksapi (Gilbert 1959), Kilay Is. (Gilbert 1959), Sangig (Gilbert 1959), Lubang Is. (Gilbert 1941).

CAULERPA FREYCINETII

Philippines (Weber van Bosse 1913).

CAULERPA LAETIVIRENS

Philippines (Heydrich 1894), Ticao Is. (Piccone 1866).

CAULERPA LENTILLIFERA

Tandoyong Is. (Domantay 1961), Puerto Galera (Gilbert 1941), Balatero Maliit (Gilbert 1959), Atong Atong (Gilbert 1959), Landang (Gilbert 1959), Caldera Bay (Gilbert 1959), Manicaan (Gilbert 1959), Babag (Gilbert 1959), Labuan (Gilbert 1959), Campo Islam (Gilbert 1959), Luksapi (Gilbert 1959), Boboh (Gilbert 1959), Sangig (Gilbert 1959), Malbulao (Taylor 1966), Puerto Princesa (Taylor 1966), Cabugan Is. (Taylor 1966), Taganak Is. (Taylor 1966), Sibutu Is. (Taylor 1966).

CAULERPA MACRODISCA

Philippines (Howe 1932).

CAULERPA MEXICANA

Taytay (Taylor 1966), Calandorang (Taylor 1966).

CAULERPA MICROPHYSA

Sakol Is. (Taylor 1966), Boboh (Taylor 1966), Atong Atong (Taylor 1966), Luksapi (Taylor 1966), Labuan (Taylor 1966), Manicahan (Taylor 1966).

CAULERPA PARVIFOLIA

Dalupiri Is. (Gilbert 1941), Philippines (Gilbert 1959).

CAULERPA PELTATA

Zamboanga (Dickie 1876), Wawa (Gilbert 1941), Puerto Galera (Gilbert 1941), Dalupiri Is. (Gilbert 1941), North Ubian Is. (Gilbert 1941), Philippines (Gilbert 1946), Lingayen (Taylor 1966), Magsingal (Taylor 1966), Philippines (Weber van Bosse 1913), Dumaguete (Reyes 1970).

CAULERPA PLUMARIS

Sta. Cruz Is. (Dickie 1876), Philippines (Martens 1866), Philippines (Montagne 1844).

CAULERPA RACEMOSA

Tandoyong Is. (Domantay 1961), Philippines (Gilbert 1946), Wawa (Gilbert 1941), Puerto Galera (Gilbert 1941), Batangas (Gilbert 1941), Dalupiri Is. (Gilbert 1941), Jolo Is. (Gilbert 1941), Sta. Cruz Is. (Gilbert 1941), Taytay (Gilbert 1941), Cabcaban (Gilbert 1941), Darong (Gilbert 1941), Puroton Reef (Gilbert 1941), Piapi (Gilbert 1941), North Ubian Is. (Gilbert 1941), Culion Is. (Gilbert 1941), Atong Atong (Gilbert 1959), Sangboy Is. (Gilbert 1959), Muelle (Gilbert 1959), Balatero Malaki (Gilbert 1959), Medio Is. (Gilbert 1959), Landang (Gilbert 1959), Sibago Is. (Gilbert 1959), Calarian (Gilbert 1959), Moro (Gilbert 1959), Balas (Gilbert 1959), Tundun Pasil (Gilbert 1959), Caldera Bay (Gilbert 1959), Manicaan (Gilbert

1959), Gavilan Pt. (Gilbert 1959), Sumut (Gilbert 1959), Sikcang (Gilbert 1959), Little Sta. Cruz Is. (Gilbert 1959), Pangapuyan Is. (Gilbert 1959), Punta Mariki (Gilbert 1959), Babog (Gilbert 1959), Luksapi (Gilbert 1959), Bagbagon (Gilbert 1959), Baluk Baluk Is. (Gilbert 1959), Boboh (Gilbert 1959), Sangig (Gilbert 1959), Kauluan Is. (Gilbert 1959), Sittio Pohu (Gilbert 1959), Amoyloi (Gilbert 1959), Balete (Gilbert 1959), Zamboanga (Gilbert 1959), Lanhil Is. (Gilbert 1959), Baliwasan (Gilbert 1959), Punta Mangal (Gilbert 1959), Sibakel Is. (Gilbert 1959), Bojelebung (Gilbert 1959), Labuan (Gilbert 1959), Bavara (Gilbert 1959), Hundred Is. (Meñez 1961), Claveria (Taylor 1966), Magsingal (Taylor 1966), Bonbon (Taylor 1966), Semirara Is. (Taylor 1966), Balabac Is. (Taylor 1966), Tijitiji (Taylor 1966), Tunundao (Taylor 1966), Jurata Bay (Taylor 1966), Taganak Is. (Taylor 1966), Alaminos (Talyor 1966), Dagupan (Taylor 1966), Sibago Is. (Taylor 1966), Baliangao (Taylor 1966), Lamitan (Taylor 1966), Bantayan Is. (Taylor 1966), Pangapuyan Is. (Taylor 1966), Sibutu Is. (Taylor 1966), Sitankai (Taylor 1966), Manila Bay (Taylor 1966), Little Sta. Cruz Is. (Taylor 1966), Laminusa Is. (Taylor 1966), Luzon (Velasquez 1952), Palawan (Velasquez 1952), Visayas (Velasquez 1952), Philippines (Weber van Bosse 1913), Visayas (Velasquez 1952), Luzon (Velasquez 1952), Dumaguete (Reyes 1970).

CAULERPA SELAGO

Philippines (Gilbert 1959), Philippines (Gilbert 1946), Philippines (Weber van Bosse 1913).

CAULERPA SERRULATA

Tandoyong Is. (Domantay 1961), Philippines (Gilbert 1946), Wawa (Gilbert 1941), Puerto Galera (Gilbert 1941), Currimao (Gilbert 1941), Culion Is. (Gilbert 1941), Sta. Cruz Is. (Gilbert 1941), Mactan Is. (Gilbert 1941), Taytay (Gilbert 1941), Biliran (Gilbert 1941), Zamboanga (Gilbert 1941), Siasi Is. (Gilbert 1941), Tundun Pasil (Gilbert 1959), Caldera Bay (Gilbert 1959), Campo Islam (Gilbert 1959), Punta Matangal (Gilbert 1959), Kapago (Gilbert 1959), Amoyloi (Gilbert 1959), Atong Atong (Gilbert 1959), Landang (Gilbert (1959), Paniquian Is. (Gilbert 1959), Balete (Gilbert 1959), Medio Is. (Gilbert 1959), Balatero Malaki (Gilbert 1959), Farola (Gilbert 1959), San Teodoro (Gilbert 1959), Buenavista (Gilbert 1959), Tumakid (Gilbert 1959), Punta Matangal (Gilbert 1959), Lanhil Is. (Gilbert 1959), Hundred Is. (Meñez 1961), Hundred Is. (Taylor 1966), Cabugao (Taylor 1966), Puerto Galera (Taylor 1966), Balabac Is. (Taylor 1966), Dumaguete (Reyes 1970).

CAULERPA SERTULARIOIDES

Tandoyong Is. (Domantay 1961), Panakalan Is. (Domantay 1961), Hundred Is. (Domantay 1961), Philippines (Gilbert 1946), Manila Channel (Gilbert 1941), Puerto Galera (Gilbert 1941), Culion Is. (Gilbert 1941), Taytay (Gilbert 1941), Cabcaban (Gilbert 1941), Philippines (Gilbert 1959), Ensenada (Gilbert 1959), Muelle (Gilbert 1959), Balatero Malaki (Gilbert 1959), Farola (Gilbert 1959), Hondura Bay (Gilbert 1959), Buenavista (Gilbert 1959), Atong Atong (Gilbert 1959), Lanhil Is. (Gilbert 1959), Sumut (Gilbert 1959), Tengolan Is. (Gilbert 1959), Zamboanga (Gilbert 1959), Little Sta.

Cruz Is. (Gilbert 1959), Hundred Is. (Meñez 1961), Puerto Galera (Taylor 1966), Balatero Malaki (Taylor 1966), Manila Bay (Taylor 1966), Pearl Bank (Taylor 1966), Taganak Is. (Taylor 1966), Magsingal (Taylor 1966), Currimao (Taylor 1966), Puerto Princesa (Taylor 1966), Little Sta. Cruz Is. (Taylor 1966), Lanhil Is. (Taylor 1966), Saluping Is. (Taylor 1966), Malamaui (Taylor 1966), Philippines (Weber van Bosse 1913), Dumaguete (Reyes 1970).

CAULERPA TAXIFOLIA
Philippines (Gilbert 1946), North Ubian Is. (Gilbert 1941), Takut Tangug (Gilbert 1959), Philippines (Martens 1866), Hundred Is. (Meñez 1961), Philippines (Montagne 1844).

CAULERPA URVILLIANA
Puerto Princesa (Taylor 1966), Pearl Bank (Taylor 1966), Sibutu Is. (Taylor 1966), Philippines (Weber van Bosse 1913).

CAULERPA VERTICILLATA
Wugan Bay (Gilbert 1959), St. Paulas Bay (Gilbert 1959), Liksapi (Gilbert 1959), Kilay Is. (Gilbert 1959), Sangig (Gilbert 1959).

CAULERPA VESICULIFERA
Puerto Princesa (Taylor 1966).

CENTROCERAS CLAVULATUM
Cavite (Piccone 1866), Dumaguete (Reyes 1970).

CENTROCERAS HYALACANTHUM
Zamboanga (Martens 1866).

CERAMEUM MARYAE
Panakalan Is. (Domantay 1961).

CERAMIUM LOUREIRI
Philippines (Martens 1866).

CERAMIUM TENUISSIMUM
Batangas (Cornejo & Velasquez 1970).

CERAMIUM MAZATLANENSE
Batangas (Cornejo & Velasquez 1970).

CHAETOMORPHA AEREA
Luzon (Velasquez 1952), Palawan (Velasquez 1952), Visayas (Velasquez 1952), Luzon (Velasquez 1952), Dumaguete (Reyes 1970).

CHAETOMORPHA ANTENNINA
Piapi (Gilbert 1959), Alabat Is. (Gilbert 1959), Hundred Is. (Meñez 1961).

CHAETOMORPHA BRACHYGONA
Manila (Gilbert 1959), Hundred Is. (Meñez 1961), Pasay Beach (Taylor 1966).

CHAETOMORPHA CLAVATA
Philippines (Weber van Bosse 1913).

CHAETOMORPHA CRASSA
Panakalan Is. (Domantay 1961), Dalupiri Is. (Gilbert 1959), Currimao (Gilbert 1959), Puro (Gilbert 1959), Manila (Gilbert 1959), Lubang Is. (Gilbert 1959), Buenavista (Gilbert 1959), Albay (Gilbert 1959), Little Sta. Cruz Is. (Gilbert 1959), Big Sta. Cruz Is. (Gilbert 1959), Zamboanga (Gilbert 1959), Landang (Gilbert 1959), Sibago Is. (Gilbert 1959), Tabtaban Is. (Gilbert 1959), Lanhil Is. (Gilbert 1959), Pangapuyan Is. (Gilbert 1959), Baliwasan (Gilbert 1959), Sangboy Is. (Gilbert 1959), Bilang Bilang (Gilbert 1959), Punta

Mariki (Gilbert 1959), Manicaan (Gilbert 1959), Babag (Gilbert 1959), Labuan (Gilbert 1959), Moro (Gilbert 1959), Campo Islam (Gilbert 1959), Bavaras (Gilbert 1959), Panubigan Is. (Gilbert 1959), Sumut (Gilbert 1959), Toburan (Gilbert 1959), Punta Matangal (Gilbert 1959), Panigayan Is. (Gilbert 1959), Sibakel Is. (Gilbert 1959), Tengolan Is. (Gilbert 1959), Baluk Baluk Is. (Gilbert 1959), Lahi Lahi (Gilbert 1959), Matangal Pt. (Gilbert 1959), Tanusa (Gilbert 1959), Atong Atong (Gilbert 1959), Dumaguete (Reyes 1970).

CHAETOMORPHA GRACILIS
Manila (Gilbert 1959), Lubang Is. (Gilbert 1959).

CHAETOMORPHA INFLATA
Philippines (Gilbert 1959), Philippines (Gilbert 1946), Zamboanga (Martens 1866).

CHAETOMORPHA KELLERSII
Philippines (Gilbert 1946), Philippines (Howe 1932), Philippines (Gilbert 1959).

CHAETOMORPHA LINUM
Manila Bay (Gilbert 1959), Batan Is. (Taylor 1966), Menabel (Taylor 1966), Albay Gulf (Taylor 1966), Montalban (Taylor 1966), Magsingal (Taylor 1966), Dagat Dagatan (Villadolid & Etal 1953), Dumaguete (Reyes 1970).

CHAETOMORPHA TORTA
Panakalan Is. (Domantay 1961).
Zamboanga (Gilbert 1959), Lanhil Is. (Gilbert 1959).

CHAETOMORPHA TORTUOSA
Camiguin Is. (Taylor 1966), Manila (Taylor 1966).

CHAMAEDORIS ORIENTALIS
Baler (Gilbert & Doty 1969).

CHAMPIA CAESPITOSA
Batangas (Cornejo & Velasquez 1970).

CHAMPIA COMPRESSA
Zamboanga (Dickie 1876).

CHAMPIA PARVULA
Dumaguete (Reyes 1970).

CHAMPIA SALICORNOIDES
Philippines (Weber van Bosse 1928).

CHAMPIA SPATHULATA
Philippines (Weber van Bosse 1928).

CHARA CONGESTA
Calumpit (Blanco 1877), Philippines (Merrill 1918).

CHAUVINA CLAVIFERA
Zamboanga (Martens 1866).

CHEILOSPORUM CULTRATUM
Hundred Is. (Domantay 1961), Hundred Is. (Meñez 1961).

CHEILOSPORUM SPECTABILE
Karkaralong Is. (Weber & Foslie 1904), Lirung (Weber & Foslie 1904).

CHLORODESMIS COMOSA
Tandoyong Is. (Domantay 1961), Taytay (Gilbert 1947), Zamboanga (Gilbert 1947), Lanhil Is. (Gilbert 1947), Punta Mangal (Gilbert 1947), Saluping Is. (Gilbert 1947), Philippines (Gilbert 1959), Hun-

dred Is. (Gilbert & Doty 1969), Baler (Gilbert & Doty 1969), Cuyo Is. (Gilbert & Doty 1969), Benticayan (Gilbert & Doty 1969), Bato (Gilbert & Doty 1969), Davao (Gilbert & Doty 1969), Hundred Is. (Meñez 1961), Alaminos (Taylor 1966).

CHLORODESMIS FORMOSANA
Dalupiri Is. (Gilbert 1947), Philippines (Gilbert 1959).

CHLORODESMIS HILDEBRANDTII
Dalupiri Is. (Gilbert 1947), Sibutu Is. (Taylor 1966), Philippines (Gilbert 1959), San Pio Quinto (Tanaka 1967).

CHLORODESMIS TORRESIENSIS
Menabel (Taylor 1966).

CHNOOSPORA IMPLEXA
Hundred Is. (Meñez 1961); Dumaguete (Reyes 1970).

CHNOOSPORA MINIMA
Hundred Is. (Taylor 1966).

CHNOOSPORA PANNOSA
Zamboanga (Martens 1866).

CHONDRIA DASYPHYLLA
Philippines (Weber van Bosse 1923).

CHONDRIA SIBOGAE
Philippines (Weber van Bosse 1923).

CHONDROCLONIUM CORNUTUM
Manila (Martens 1866).

CHONDROCOCCUS HORNEMANNI
Hundred Is. (Meñez 1961).

CHRYSYMENIA UVARIA
Sta. Cruz Is. (Dickie 1876).

CLADOPHORA AEGAGROPILA
Philippines (Weber van Bosse 1913).

CLADOPHORA ALBIDA
Tandoyong Is. (Domantay 1961).

CLADOPHORA ACKII
Limay (Taylor 1966), Limay (Gilbert 1959).

CLADOPHORA FASCICULARIS
Currimao (Gilbert 1959), Manila (Gilbert 1959), Big Sta. Cruz Is. (Gilbert 1959), Zamboanga (Gilbert 1959), Lanhil Is. (Gilbert 1959), Labuan (Gilbert 1959), Sibakel Is. (Gilbert 1959), Dumaguete (Reyes 1970).

CLADOPHORA FULIGINOSA
Dalupiri Is. (Gilbert 1959), Hundred Is. (Meñez 1961).

CLADOPHORA LUZONIENSIS
San Mateo (Martens 1866).

CLADOPHORA MAURITIANA
Philippines (Gilbert 1959), Philippines (Gilbert 1946), Zamboanga (Dickie 1876).

CLADOPHORA PELLUCIDA
Philippines (Gilbert 1959), Panakalan Is. (Domastay 1961), Philippines (Martens 1866), Philippines (Gilbert 1946).

CLADOPHORA QUISUMBINGII
Batan Is. (Taylor 1966), Bawa (Taylor 1966).

CLADOPHORA DILUTA
San Mateo (Martens 1866).

CLADOPHORA TRICHOTOMA

Batangas (Cornejo & Velasquez 1970).

CLADOPHOROPSIS PHILIPPINENSIS

Manicaan (Taylor 1966), Bolong (Taylor 1966), Taluksangay (Taylor 1966), Pangapuyan Is. (Taylor 1966), Buena Vista (Taylor 1966), Panubigan Is. (Taylor 1966), Basilan Is. (Taylor 1966), Kilay Is. (Taylor 1966), Tundun Pasil (Taylor 1966), Panigayan Is. (Taylor 1966), Logoy (Taylor 1966).

CLADOPHOROPSIS SUNDANENSIS

Philippines (Gilbert 1946), Philippines (Gilbert 1959), Philippines (Weber van Bosse 1913).

CLAUDEA BATANENSIS

Babuyan Is. (Tanaka 1967).

COCCOCHLORIS PENIOCYSTIS

College (Drouet & Daily 1956).

COCCOCHLORIS STAGNINA

Balanga (Drouet & Daily 1956), Panilao (Drouet & Daily 1956), Lipa (Drouet & Daily 1956), Duenas (Drouet & Daily 1956), Dumangas (Drouet & Daily 1956), Guimbal (Drouet & Daily 1956), Iloilo City (Drouet & Daily 1956), Leganes (Drouet & Daily 1956), Janiuay (Drouet & Daily 1956), Leon (Drouet & Daily 1956), San Miguel (Drouet & Daily 1956), Sta. Barbara (Drouet & Daily 1956), Tacloban (Drouet & Daily 1956), Manila (Drouet & Daily 1956), Camina (Drouet & Daily 1956), Intramuros (Drouet & Daily 1956), Malate (Drouet & Daily 1956), Paco (Drouet & Daily 1956), Pandacan (Drouet & Daily 1956), Quiapo (Drouet & Daily 1956), Sampaloc (Drouet & Daily 1956), San Nicolas (Drouet & Daily 1956), Sta. Ana (Drouet & Daily 1956), Sta. Cruz (Drouet & Daily 1956), Singalong (Drouet & Daily 1956), Tondo (Drouet & Daily 1956), Talakay (Drouet & Daily 1956), Tabinay Maliit (Drouet & Daily 1956), Balatero Malaki (Drouet & Daily 1956), Bisayaan (Drouet & Daily 1956), Big Balatero (Drouet & Daily 1956), Cuyo (Drouet & Daily 1956), Araceli (Drouet & Daily 1956), Diliman (Drouet & Daily 1956), Marikina (Drouet & Daily 1956), Barrio Mangahan (Drouet & Daily 1956), Quezon City (Drouet & Daily 1956), Kamuning (Drouet & Daily 1956), Taytay (Drouet & Daily 1956), Sanga-Sanga (Drouet & Daily 1956), Bari (Drouet & Daily 1956), Tempe (Drouet & Daily 1956).

COCCONEIS BREVICOSTATA

Buhi (Hustedt 1942).

COCCONEIS PEDICULUS

Laguna Bay (Hustedt 1942).

COCCONEIS PLACENTULA

Laguna Bay (Hustedt 1942), Taal (Hustedt 1942), Calibato (Hustedt 1942), Dolores (Hustedt 1942), Trouble Crk (Hustedt 1942), Buhi (Hustedt 1942), Manila (Hustedt 1942), Bato Lake (Hustedt 1942), Los Baños (Hustedt 1942), Dagatan (Hustedt 1942), Naujan (Hustedt 1942), Lanao (Hustedt 1942), Uyaan (Hustedt 1942), Singuan (Hustedt 1942), Batursee (Hustedt 1942).

COCCONEIS SCUTELLUM

Singuan (Hustedt 1942).

CODIUM ADHAERENS

Mactan Is. (Dickie 1876), Karakelong Is. (Gepp A & Es 1911), Puerto

Galera (Gilbert 1947), Philippines (Gilbert 1946), Philippines (Gilbert 1959), Philippines (Weber van Bosse 1913).

CODIUM ARABICUM

Hundred Is. (Meñez 1961); Dumaguete (Reyes 1970).

CODIUM BARTLETTII

Puerto Galera (Gilbert & Tseng 1942), Batangas (Gilbert & Tseng 1942), Philippines (Gilbert 1959), Balatero Maliit (Gilbert 1947), Hondura Bay (Gilbert 1947), Balatero Malaki (Gilbert 1947), Paniquian Is. (Gilbert 1947), Sabang (Gilbert 1947), Puerto Galera (Gilbert 1947), Batangas (Gilbert 1947).

CODIUM CONTRACTUM

Philippines (Gilbert 1959), Cavite (Gilbert 1947).

CODIUM CORONATUM

Puerto Galera (Gilbert 1947), Balete (Gilbert 1947), Balatero Malaki (Gilbert 1947), Ensenada (Gilbert 1947), Batangas (Gilbert 1947), Taytay (Gilbert 1947), Buenavista (Gilbert 1947), Sibakel Is. (Gilbert 1947), Tengolan Is. (Gilbert 1947), Philippines (Gilbert 1959).

CODIUM DICHOTOMUM

Philippines (Gilbert 1959), Philippines (Gilbert 1946).

CODIUM DIFFORME

North Ubian (Gepp 1911), North Ubian Is. (Gepp & Es 1911), Philippines (Gilbert 1946), Philippines (Gilbert 1959), Philippines (Weber van Bosse 1913).

CODIUM ELONGATUM

Pearl Bank (Gepp A & Es 1911), Pearl Bank (Gepp A 1911), Philippines (Gilbert 1946), Philippines (Gilbert 1959), Philippines (Weber van Bosse 1913).

CODIUM GEPPII

Tandoyong Is. (Domantay 1961), Philippines (Gilbert 1959), Dalupiri Is. (Gilbert 1947), San Fernando (Gilbert 1947), Balete (Gilbert 1947), Boaya Pt. (Gilbert 1947), Puerto Galera (Gilbert 1947).

CODIUM INTRICATUM

Philippines (Gilbert 1959), Hundred Is. (Meñez 1961), Sikcang (Gilbert 1947).

CODIUM OVALE

Tawi Tawi Is. (Gepp 1911), Pearl Bank (Gepp 1911), North Ubian (Gepp 1911), Philippines (Gilbert 1959), Sanguisiapio (Gepp & Es 1911), Pearl Bank Gepp & Es 1911), North Ubian Is. (Gepp & Es 1911), Philippines (Gilbert 1946), Philippines (Weber van Bosse 1913).

CODIUM PAPILLATUM

Philippines (Gilbert 1959), Puerto Galera (Gilbert & Tseng 1942), Cavite (Gilbert & Tseng 1942), Cavite (Gilbert 1947), Lamao (Gilbert 1947), Puerto Galera (Gilbert 1947).

CODIUM TENUE

Tandoyong Is. (Domantay 1961), North Ubian Is. (Gepp A & Es 1911), North Ubian (Gepp 1911), Philippines (Gilbert 1946), Philippines (Gilbert 1959), Philippines (Weber van Bosse 1913).

CODIUM TOMENTOSUM

Mactan Is. (Dickie 1876), Karkarelong Is. (Gepp A & Es 1911), Karakelang Is. (Gepp A & Es 1911), Philippines (Heydrich 1894), Philippines (Martens 1866), Hundred Is. (Meñez 1961), Philippines (Montagne 1844), Ticao Is. (Piccone 1866), Philippines (Weber van

Bosse 1913), Dumaguete (Reyes 1970).

COLPOMENIA SINUATA
Philippines (Velasquez 1948).

COLPOMENIA SINUOSA
Tandoyong Is. (Domantay 1961), Hundred Is. (Domantay 1961), Hundred Is. (Meñez 1961), Dumaguete (Reyes 1970).

CONFERVA CONGESTA
Calumpit (Blanco 1877).

CONFERVA LIA
Philippines (Blanco 1877).

CONFERVA LITTORALIS
Bahi (Blanco 1837), Manila (Blanco 1877), Manila Bay (Blanco 1877).

CONFERVA LITORALIS
Manila(Blanco 1845), Manila (Blanco 1845), Laguna de Bahi (Blanco 1845), Manila (Merrill 1918).

CONFERVA PELLUCIDA
Philippines (Montagne 1844).

CONFERVA SETOSA
Mount Arayat (Blanco 1845), Pampanga (Blanco 1845), Mount Arayat (Blanco 1877), Pampanga (Blanco 1877), Arayat (Blanco 1837).

CONIODICTYON SPLENDENS
Mindanao (Bailey & Harvey 1862).

COPELANDISPHAERA DISSIPATRIX
Pasig (Shaw 1822).

CORALLOPSIS MINOR
Cavite (Piccone 1866).

CORIOPHYLLUM SETCHELLII
Borneo (Kylin 1956).

COSCINODISCUS EXCENTRICUS
Sulu Sea (Bailey 1853).

COSCINODISCUS JONESIANUS
Dagatan (Hustedt 1942).

COSCINIDISCUS LACUSTRIS
Laguna Bay (Hustedt 1942), Lyon (Hustedt 1942), Lanao Lake (Hustedt 1942).

COSCINODISCUS LINEARIS
Philippine Is. (Bailey 1853), Mindanao (Bailey & Harvey 1862).

COSCINODISCUS MARGINATUS
Sulu Sea (Bailey 1853).

COSCINODISCUS ROTHII
Laguna Bay (Hustedt 1942), Lyon (Hustedt 1942), Los Baños (Hustedt 1942), Calapan Lake (Hustedt 1942), Danao Lake (Hustedt 1942), Uyaan Lake (Hustedt 1942).

CROUANIA ATTENUATA
Philippines (Weber van Bosse 1923).

CRUORIELLA DURA
Philippines (Weber van Bosse 1921).

CRUORIELLA FOVEOLATA
Philippines (Weber van Bosse 1921).

CRUORIELLA INDICA
Philippines (Weber van Bosse 1921).

CRUORIELLA LEMOINEI
Philippines (Weber van Bosse 1921).

CRUORIELLA MARITI
Philippines (Weber van Bosse 1921).

CYCLOTELLA ATOMUS
Dagatan (Hustedt 1942), Los Baños (Hustedt 1942), Crater Lake (Hustedt 1942).

CYCLOTELLA COMENSIS
Crater Lake (Hustedt 1942), Taal Lake (Hustedt 1942).

CYCLOTELLA COMTA
Lyon (Hustedt 1942), Calapan Lake (Hustedt 1942), Taal Lake (Hustedt 1942).

CYCLOTELLA KUTZINGIANA
Manila (Hustedt 1942), Los Baños (Hustedt 1942), Crater Lake (Hustedt 1942).

CYCLOTELLA MENEGHINIANA
Laguna Bay (Hustedt 1942), Lyon (Hustedt 1942), Philippines (Hustedt 1942), Bunot Lake (Hustedt 1942), Taal Lake (Hustedt 1942), Calibato Lake (Hustedt 1942), Buhi Lake (Hustedt 1942), Bato Lake (Hustedt 1942), Los Baños (Hustedt 1942), Naujan Lake (Hustedt 1942), Uyaan Lake (Hustedt 1942), Seit Lake (Hustedt 1942), Panamao Lake (Hustedt 1942), Singuan Lake (Hustedt 1942), Batur (Hustedt 1942).

CYCLOTELLA OCELLATA
Luzon (Hustedt 1942).

CYCLOTELLA STELLIGERA
Uyaan Lake (Hustedt 1942), Buhi Lake (Hustedt 1942), Danao Lake (Hustedt 1942).

CYMBELLA AFFINIS
Laguna Bay (Hustedt 1942), Taal (Hustedt 1942), Buhi (Hustedt 1942), Manila (Hustedt 1942), Los Baños (Hustedt 1942), Danao (Hustedt 1942).

CYMBELLA ASPERA
Buhi (Hustedt 1942), Manila (Hustedt 1942), Los Baños (Hustedt 1942).

CYMBELLA BENGALENSIS
Manila (Hustedt 1942).

CYMBELLA CISTULA
Danao (Hustedt 1942).

CYMBELLA CUSPIDATA
Danao (Hustedt 1942), Uyaan (Hustedt 1942).

CYMBELLA DELICATULA
Laguna Bay (Hustedt 1942).

CYMBELLA GRACILIS
Laguna Bay (Hustedt 1942), Manila (Hustedt 1942), Los Baños (Hustedt 1942), Danao (Hustedt 1942), Lanao (Hustedt 1942), Uyaan (Hustedt 1942), Dagiangan (Hustedt 1942), Bratan (Hustedt 1942).

CYMBELLA NAVICULIFORMIS
Laguna Bay (Hustedt 1942), Danao (Hustedt 1942), Lanao (Hustedt 1942), Uyaan (Hustedt 1942).

CYMBELLA PROSTRATA
Bunot (Hustedt 1942).

CYMBELLA SPICULA
Laguna Bay (Hustedt 1942), Danao (Hustedt 1942), Uyaan (Hustedt 1942), Dagiangan (Hustedt 1942).

CYMBELLA SUMATRENSIS
Dagiangan (Hustedt 1942).

CYMBELLA TUMIDA
Lyon (Hustedt 1942), Naujan (Hustedt 1942), Danao (Hustedt 1942), Buhi (Hustedt 1942).

CYMBELLA TURGIDA
Laguna Bay (Hustedt 1942), Taal (Hustedt 1942), Buhi (Hustedt 1942), Lyon (Hustedt 1942), Los Baños (Hustedt 1942), Dagatan (Hustedt 1942), Naujan (Hustedt 1942), Bratan (Hustedt 1942).

CYMBELLA VENTRICOSA
Dagatan (Hustedt 1942), Seit (Hustedt 1942), Singuan (Hustedt 1942).

CYMOPOLIA VANBOSSEI
Port Carmen (Gilbert & Doty 1969), Benticayan Bay (Gilbert & Doty 1969), Virac Point (Gilbert & Doty 1969), Bato (Gilbert & Doty 1969), Mangagoy (Gilbert & Doty 1969).

CYMPOLIA VAN-BOSSEAE
Philippines (Gilbert 1959), Sta. Cruz, Zambales (Gilbert 1943).

CYSTOSEIRA ARTICULATA
Hundred Is. (Meñez 1961).

DASYCLADUS AUSTRALICUS
Calolbon (Taylor 1966).

DENTICELLA BIDDULPHIA
Philippine Is. (Bailey 1853).

DENTICULA VANHEURCKI
Bratan (Hustedt 1942), Batur (Hustedt 1942).

DESMIA HORNEMANNII
Dumaguete (Reyes 1970).

DESMOGONIUM GUIANENSE
Buhi (Hustedt 1942), Lyon (Hustedt 1942), Dagatan (Hustedt 1942), Danao (Hustedt 1942), Dagianan (Hustedt 1942), Uyaan (Hustedt 1942).

DICHONEMA SERICEUM
Philippines (Montagne 1844).

DICHOTHRIX GYPSOPHILA
Batangas (Cornejo & Velasquez 1970).

DICTYOCHA SPLENDENS
Philippine Is. (Bailey 1853).

DICTYOPTERIS CAMIGUINENSIS
San Pio Quinto (Tanaka 1967).

DICTYOPTERIS DELICATULA
Philippines (Weber van Bosse 1913).

DICTYOPTERIS UNDULATA
Panakalan Is. (Domantay 1961).

DICTYOSPHAERIA CAVERNOSA
Tandoyong Is. (Domantay 1961), Puerto Princesa (Taylor 1966), Philippines (Gilbert 1946), Dalupiri Is. (Gilbert 1959), Puerto Galera (Gilbert 1959), Batangas (Gilbert 1959), Muella (Gilbert 1959), Balatero Maliit (Gilbert 1959), Medio Is. (Gilbert 1959), Sabang (Gilbert 1959), Taytay (Gilbert 1959), Marapinas (Gilbert 1959), Atong Atong (Gilbert 1959), Sakul Is. (Gilbert 1959), Pangapuyan Is. (Gilbert 1959), Zamboanga (Gilbert 1959), Bolong (Gilbert 1959), Punta Mariki (Gilbert 1959), Taluksangay (Gilbert 1959), Toburan (Gilbert 1959), Bagbagon (Gilbert 1959), Sangboy Is. (Gilbert 1959), Moro (Gilbert 1959), Sumut (Gilbert 1959), Punta Matangal (Gilbert 1959), Panigayan Is. (Gilbert

1959), Kilay (Gilbert 1959), Hundred Is. (Meñez 1961), Batangas Ch (Taylor 1966), Taytay (Taylor 1966), Tawi Tawi Is. (Taylor 1966), Tiji Tiji (Taylor 1966), Sibutu Is. (Taylor 1966), Sitankai (Taylor 1966), Balabac Is. (Taylor 1966), Dumaguete (Reyes 1970).

DICTYOSPHAERIA FAVULOSA
Zamboanga (Dickie 1876).

DICTYOSPHAERIA INTERMEDIA
Hundred Is. (Meñez 1961), Bawa (Taylor 1966), Menabel (Taylor 1966).

DICTYOSPHAERIA SETCHELLII
Basilan (Gilbert 1959).

DICTYOSPHAERIA VERSLUYSII
Tandoyong Is. (Domantay 1961).

DICTYOTA BARTAYRESIANA
Philippines (Weber van Bosse 1913).

DICTYOTA BARTAYRESII
Puerto Galera (Taylor 1966), Calendorang (Taylor 1966), Gnat Reef (Taylor 1966), Turtle Is. (Taylor 1966).

DICTYOTA BIDENTATA
Mindanao (Bailey & Harvey 1851), Mindanao (Bailey & Harvey 1874), Mindanao (Bailey & Harvey 1862).

DICTYOTA CERVICORNIS
Hundred Is. (Meñez 1961), Balabac Is. (Taylor 1966); Dumaguete (Reyes 1970).

DICTYOTA CEYLANICA
Zamboanga (Martens 1866).

DICTYOTA DICHOTOMA
Mactan Is. (Dickie 1876), Panakalan Is. (Domantay 1961), Tandoyong Is. (Domantay 1961), Philippines (Howe 1932), Hundred Is. (Meñez 1961), Hundred Is. (Taylor 1966), Balabac Is. (Taylor 1966), Laminusa Is. (Taylor 1966), Tawi Tawi Is. (Taylor 1966), Dumaguete (Reyes 1970).

DICTYOTA DIVARICATA
Panakalan Is. (Domantay 1961), Tandoyong Is. (Domantay 1961).

DICTYOTA INDICA
Hundred Is. (Meñez 1961).

DICTYOTA LATA
Sta. Cruz Is. (Dickie 1876), Zamboanga (Martens 1866).

DICTYOTA LINEARIS
Panakalan Is. (Domantay 1961), Tandoyong Is. (Domantay 1961), Philippines (Montagne 1844), Philippines (Martens 1866), Hundred Is. (Taylor 1966), Taganak Is. (Taylor 1966).

DIPLONEIS OVALIS
Luzon (Hustedt 1942).

DIPLONEIS SUBOVALIS
Manila (Hustedt 1942), Naujan (Hustedt 1942), Lanao (Hustedt 1942).

ECTOCARPUS IRREGULARIS
Batangas (Cornejo & Velasquez 1970).

ECTOCARPUS INDICUS
Batangas (Cornejo & Velasquez 1970).

ENCOELIUM CLATHRATUM
Batangas (Martens 1866).

ENCOELIUM ORIENTALE
Manila (Martens 1866).

ENDOSIPHONIA SPINULIGERA
Philippines (Weber van Bosse 1923).

ENTEROMORPHA ARAGOENSIS
Baler, Quezon (Gilbert & Doty 1969).

ENTEROMORPHA COMPRESSA
Batangas (Cornejo & Velasquez 1970).

ENTEROMORPHA CRINITA
Philippines (Weber van Bosse 1913), Philippines (Gilbert 1946), Batangas (Martens 1866), Mindoro (Gilbert 1959).

ENTEROMORPHA ERECTA
Currimao (Gilbert 1959), Parañaque (Gilbert 1959), Bulacan (Gilbert 1959).

ENTEROMORPHA FLEXUOSA
Dalupiri Is. (Gilbert 1959), Nasugbu (Gilbert 1959), Manila Bay (Gilbert 1959), Puerto Galera (Gilbert 1959), Batangas (Gilbert 1959), Balatero (Gilbert 1959), Medio Is. (Gilbert 1959), Lubang Is. (Gilbert 1959), Sabang (Gilbert 1959), Big Sta. Cruz Is. (Gilbert 1959), Zamboanga (Gilbert 1959), Lanhil Is. (Gilbert 1959), Takut Tangug (Gilbert 1959), Manila Harbor (Gilbert & Doty 1969), Parañaque (Gilbert & Doty 1969), Cuyo Is. (Gilbert & Doty 1969), Philippines (Gilbert 1946), Ticao Is. (Piccone 1866), Batan Is. (Taylor 1966), Calayan Is. (Taylor 1966), Gonzaga (Taylor 1966), Tualog (Taylor 1966), Malata (Taylor 1966), Magsingal (Taylor 1966), Balabac Is. (Taylor 1966), Malabon (Taylor 1966), Pasay Beach (Taylor 1966), Las Piñas (Taylor 1966), Batangas (Cornejo & Velasquez 1970).

ENTEROMORPHA INTERMEDIA
Dagat Dagatan (Gilbert & Doty 1969).

ENTEROMORPHA INTESTINALIS
Dalupiri Is. (Gilbert 1959), Manila Bay (Gilbert 1959), Quezon (Gilbert 1959), Puerto Galera (Gilbert 1959), Philippines (Gilbert 1946), Mindanao (Martens 1866), Luzon (Velasquez 1952), Palawan (Velasquez 1952), Visayas (Velasquez 1952), Luzon (Velasquez 1952), Dumaguete (Reyes 1970).

ENTEROMORPHA LINGULATA
Ilocos Sur (Gilbert 1959), Baler (Gilbert 1959), Takut Tangug (Gilbert 1959), Philippines (Gilbert 1946), Philippines (Howe 1932), Pasay Beach (Taylor 1966), Manila Bay (Taylor 1966), Hundred Is. (Taylor 1966), Bon Bon (Taylor 1966).

ENTEROMORPHA PLUMOSA
Philippines (Gilbert 1959).

ENTEROMORPHA PROLIFERA
Philippines (Gilbert 1946), Ilocos Sur (Gilbert 1959), Manila Bay (Gilbert 1959), Tabtabon Is. (Gilbert 1959).

ENTEROMORPHA RAMULOSA
Dagat Dagatan (Gilbert & Doty 1969), Parañaque (Gilbert & Doty 1969), Parañaque (Taylor 1966), Magsingal (Taylor 1966).

ENTEROMORPHA SPINESCENS
Paoay (Taylor 1966).

ENTEROMORPHA TUBULOSA
Dagat Dagatan (Villadolid & Etal 1953), Pasay (Gilbert 1959), Mauban

(Gilbert 1959), Lubang Is. (Gilbert 1959), Buenavista (Gilbert 1959).

ENTOPHYSALIS CONFERTA
Manila (Drouet & Daily 1956), Aligaen (Drouet & Daily 1956), Dagat-Dagatan (Drouet & Daily 1956), Parañaque (Drouet & Daily 1956).

ENTOPHYSALIS LEMANIAE
Bisayaan (Drouet & Daily 1956), Pansol (Drouet & Daily 1956).

EPITHEMIA CISTULA
Laguna Bay (Hustedt 1942), Danao (Hustedt 1942).

EPITHEMIA SOREX
Manila (Hustedt 1942).

EPITHEMIA ZEBRA
Manila (Hustedt 1942), Laguna Bay (Hustedt 1942), Buhi (Hustedt 1942), Lyon (Hustedt 1942), Danao (Hustedt 1942), Uyaan (Hustedt 1942), Singuan (Hustedt 1942), Batur (Hustedt 1942), Naujan (Hustedt 1942).

EUCHEUMA DICHOTOMUM
Philippines (Weber van Bosse 1928).

EUCHEUMA EDULE
Hundred Is. (Meñez 1961).

EUCHEUMA GELATINAE
Hundred Is. (Domantay

EUCHEUMA ISIFORME
Dumaguete (Reyes 1970).

EUCHEUMA MURICATA
Hundred Is. (Domantay 1961), Tandoyong Is. (Domantay 1961), Hundred Is. (Domantay 1961), Labuan Hadji (Weber van Bosse 1928).

EUCHEUMA OKAMURAI
Hundred Is. (Domantay 1961), Tandoyong Is. (Domantay 1961).

EUCHEUMA PROCRUSTEANUM
Caluya Is. (Kraft 1969).

EUCHEUMA SPINOSUM
Hundred Is. (Domantay 1961).

EUCHEUMA STRIATUM
Hundred Is. (Domantay 1961), Tandoyong Is. (Domantay 1961).

EUHYMENIA LIMENSIS
Zamboanga (Martens 1866).

EUNOTIA CAMELUS
Laguna Bay (Hustedt 1942), Buhi (Hustedt 1942), Dagatan (Hustedt 1942).

EUNOTIA DENTICULATA
Laguna Bay (Hustedt 1942).

EUNOTIA DIDYMA
Lyon (Hustedt 1942), Buhi (Hustedt 1942).

EUNOTIA EXIGUA
Danao (Hustedt 1942), Uyaan (Hustedt 1942).

EUNOTIA FLEXUOSA
Danao (Hustedt 1942), Dagianan (Hustedt 1942).

EUNOTIA GRACILIS
Seit (Hustedt 1942).

EUNOTIA LUNARIS
Laguna Bay (Hustedt 1942), Volcano Is. (Hustedt 1942), Buhi (Hustedt 1942), Dagatan (Hustedt 1942), Danao (Hustedt 1942), Dagianan (Hustedt 1942).

EUNOTIA MONODON
Laguna Bay (Hustedt 1942), Danao (Hustedt 1942), Dagianan (Hustedt 1942), Uyaan (Hustedt 1942).

EUNOTIA PECTINALIS
Manila (Hustedt 1942), Laguna Bay (Hustedt 1942), Buhi (Hustedt 1942), Dagianan (Hustedt 1942), Uyaan (Hustedt 1942), Danao (Hustedt 1942).

EUNOTIA ROBUSTA
Danao (Hustedt 1942), Uyaan (Hustedt 1942).

EUNOTIA TSCHIRCHIANA
Laguna Bay (Hustedt 1942), Taal (Hustedt 1942), Buhi (Hustedt 1942), Manila (Hustedt 1942), Los Baños (Hustedt 1942), Dagatan (Hustedt 1942), Lanao (Hustedt 1942), Seit (Hustedt 1942).

EXOPHYLLUM WENTII
Philippines (Weber van Bosse 1928).

FRAGILARIA CONSTRUENS
Lyon (Hustedt 1942).

FRAGILARIA CROTONENSIS
Laguna Bay (Hustedt 1942).

FRAGILARIA PINNATA
Lyon (Hustedt 1942).

FRUSTULIA RHOMBOIDES
Laguna Bay (Hustedt 1942), Manila (Hustedt 1942), Los Baños (Hustedt 1942), Dagatan (Hustedt 1942), Danao (Hustedt 1942), Dagianan (Hustedt 1942), Uyaan (Hustedt 1942), Seit (Hustedt 1942).

FRUSTULIA VULGARIS
Buhi (Hustedt 1942).

FUCUS DENTICULATUS
Manila Bay (Merrill 1918).

FUCUS EDULIS
Tambobon (Blanco 1877), Parañaque (Blanco 1877), Tambobong (Blanco 1845), Ilocos (Blanco 1877), Manila (Blanco 1845), Tambobong (Blanco 1845), Parañaque (Blanco 1845), Ilocos (Blanco 1845), Parañaque (Blanco 1845), Ilocos (Blanco 1845), Bauang Sur (Blanco 1845).

FUCUS GULAMAN
Manila (Merrill 1918).

FUCUS NATANS
Ilocos (Blanco 1877), Ilocos (Blanco 1845), Ilocos (Blanco 1845).

FUCUS PROLIFER
Punta Santiago (Blanco 1877), Punta Santiago (Blanco 1845), Punta Santiago (Blanco 1845), Puro (Merrill 1918).

GALAXAURA APICULATA
Hundred Is. (Meñez 1961), Puerto Galera (Chou 1945).

GALAXAURA ARBOREA
Hundred Is. (Meñez 1961), Dalupiri Is. (Chou 1945).

GALAXAURA CONSTIPATA
Hundred Is. (Meñez 1961).

GALAXAURA CYLINDRICA
Dalupiri Is. (Chou 1947).

GALAXAURA DIMORPHA
Hundred Is. (Meñez 1961).

GALAXAURA FASCICULATA
Culion Is. (Chou 1945), Dumaguete (Reyes 1970).

GALAXAURA FASTIGIATA
Tandoyong Is. (Domantay 1961), Hundred Is. (Domantay 1961), Philippine Is. (Grunow 1873), Philippines (Howe 1932), Philippines (Kjellman 1900), Philippines (Martens 1866), Philippines (Montagne 1844).

GALAXAURA FRUTICULOSA
Hundred Is. (Domantay 1961).

GALAXAURA KJELLMANII
Philippines (Weber van Bosse 1921).

GALAXAURA OBLONGATA
Dalupiri Is. (Chou 1947), Subic Bay (Chou 1947), Sinait (Chou 1947), Cavite (Chou 1947), Wawa (Chou 1947), Puerto Galera (Chou 1947), Liloan Beach (Chou 1947), Dumaguete (Reyes 1970).

GALAXAURA SIBOGAE
Philippines (Weber van Bosse 1921).

GALAXAURA SQUALIDA
Dalupiri Is. (Chou 1947), Lubang Is. (Chou 1947), Hundred Is. (Domantay 1961).

GALAXAURA SUBVERTICILLATA
Puerto Galera (Chou 1945), Lubang Is. (Chou 1945).

GALAXAURA UMBELLATA
Dalupiri Is. (Chou 1947).

GALAXAURA VEPRECULA
Dalupiri Is. (Chou 1947), Batan Is. (Chou 1947).

GALLIONELLA SULCATA
Philippine Is. (Bailey 1853), Sulu Sea (Bailey 1853), Mindanao (Bailey & Harvey 1862), Sulu Sea (Bailey & Harvey 1862).

GELIDIELLA ACEROSA
Hundred Is. (Domantay 1961), Dumaguete (Reyes 1970).

GELIDIOPSIS INTRICATA
Dumaguete (Reyes 1970).

GELIDIUM ANTHONINII
Philippines (Martens 1866).

GELIDIUM PULCHELLUM
Hundred Is. (Domantay 1961).

GELIDIUM RIGENS
Manila (Martens 1866), Mactan Is. (Dickie 1876).

GELIDIUM RIGIDUM
Zamboanga (Dickie 1876), Philippines (Howe 1932), Philippines (Martens 1866).

GELIDIUM SPINIFORME
Philippines (Montagne 1844).

GIGARTINA GELATINOSA
Philippines (Montagne 1844).

GLOIOCLADIA RAMELLIFERA
Philippines (Weber van Bosse 1928).

GOMPHONEMA ACUMINATUM
Laguna Bay (Hustedt 1942), Uyaan (Hustedt 1942).

GOMPHONEMA ANGUSTATUM
Luzon (Hustedt 1942).

GOMPHONEMA CLEVEI
Luzon (Hustedt 1942), Lyon (Hustedt 1942).

GOMPHONEMA GRACILE
Laguna Bay (Hustedt 1942), Buhi (Hustedt 1942), Dagatan (Hustedt

1942), Naujan (Hustedt 1942), Lanao (Hustedt 1942), Uyaan (Hustedt 1942), Bratan (Hustedt 1942).

GOMPHONEMA INTERMEDIUM
Naujan (Hustedt 1942).

GOMPHONEMA INTRICATUM
Uyaan (Hustedt 1942).

GOMPHONEMA LANCEOLATUM
Laguna Bay (Hustedt 1942), Bunot (Hustedt 1942), Taal (Hustedt 1942), Buhi (Hustedt 1942), Lyon (Hustedt 1942), Dagatan (Hustedt 1942), Naujan (Hustedt 1942), Calapan (Hustedt 1942), Danao (Hustedt 1942).

GOMPHONEMA LONGICEPS
Manila (Hustedt 1942).

GOMPHONEMA LINGULATUM
Laguna Bay (Hustedt 1942), Lyon (Hustedt 1942).

GOMPHONEMA PARVULUM
Laguna Bay (Hustedt 1942), Buhi (Hustedt 1942), Los Baños (Hustedt 1942), Naujan (Hustedt 1942), Calapan (Hustedt 1942), Scit (Hustedt 1942), Lanao (Hustedt 1942), Singuan (Hustedt 1942).

GOMPHONEMA SUBTILE
Danao (Hustedt 1942), Uyaan (Hustedt 1942), Bratan (Hustedt 1942).

GONIOLITHON REINBOLDI
North Ubian (Weber van Bosse 1904).

GONIOTRICHUM ELEGANS
Philippines (Weber van Bosse 1921).

GRACILARIA ARCUATA
Philippines (Weber van Bosse 1928).

GRACILARIA CANALICULATA
Manila Bay (Cantoria & Valen & Velas 1951).

GRACILARIA COMPRESSA
Hundred Is. (Meñez 1961), Philippines (Howe 1932).

GRACILARIA CONFERVOIDES
Luzon (Velasquez 1952), Visayas (Velasquez 1952), Palawan (Velasquez 1952), Philippines (Montagne 1844), Puerto Galera (Velasquez 1953), Palawan (Velasquez 1953), Sulu Arch. (Velasquez 1953), Luzon (Velasquez 1953), Hundred Is. (Velasquez 1953), Quezon (Velasquez 1953), Luzon (Velasquez 1952), Visayas (Velasquez 1952).

GRACILARIA CRASSA
Tandoyong Is. (Domantay 1961).

GRACILARIA DACTYLOIDES
Sta. Cruz Is. (Dickie 1876).

GRACILARIA EUCHEUMOIDES
Mactan Is. (Dickie 1876), Hundred Is. (Domantay 1961), Dumaguete (Reyes 1970).

GRACILARIA LACINULATA
Philippines (Weber van Bosse 1928).

GRACILARIA LICHENOIDES
Manila Bay (Cantoria & Valen & Velas 1951), Hundred Is. (Domantay 1961), Philippines (Howe 1932).

GRACILARIA SALICORNIA
Dumaguete (Reyes 1970).

GRACILARIA VERRUCOSA
Dumaguete (Reyes 1970).

GRAMMATOPHORA OCEANICA

Sulu Sea (Bailey 1853), Philippine Is. (Bailey 1853), Sulu Sea (Bailey & Harvey 1862), Mindanao (Bailey & Harvey 1862).

GRATELOUPIA FILICINA

Philippines (Martens 1866), Zamboanga (Martens 1866), Dumaguete (Reyes 1970).

GRIFFITHSIA OVALIS

Batangas (Cornejo & Velasquez 1970).

GYMNOGONGRUS DILATATUS

Gigantes Is. (Dickie 1876).

GYMNOGONGRUS PYGMAEUS

Zamboanga (Martens 1866).

GYROSIGMA DISTORTUM

Luzon (Hustedt 1942).

GYROSIGMA KUTZINGI

Laguna Bay (Hustedt 1942), Buhi (Hustedt 1942).

GYROSIGMA SCALPROIDES

Lanao (Hustedt 1942).

HALICORYNE WRIGHTII

Lucap Bay (Domantay 1961), Philippines (Gilbert 1946), Philippines (Gilbert 1959), Subic Bay (Gilbert 1943), Lamao (Gilbert 1943), Ragay Gulf (Gilbert 1943), Bulalacao (Gilbert 1943), Mogas Pt. (Gilbert 1943), Bohol Is. (Gilbert 1943), Hundred Is. (Meñez 1961), Hundred Is. (Taylor 1966).

HALICYSTIS OVALIS

Lucap Bay (Domantay 1961), Hundred Is. (Domantay 1961), Panakalan Is. (Domantay 1961), Tandoyong Is. (Domantay 1961).

HALIMEDA CUNEATA

Punta Santiago (Martens 1866), Zamboanga (Martens 1866), Hundred Is. (Meñez 1961).

HALIMEDA CYLINDRACEA

Culion Is. (Hillis 1959).

HALIMEDA CYLINDRICA

Tayabas Bay (Taylor 1966), Culion (Taylor 1966).

HALIMEDA DISCOIDEA

Philippines (Gilbert 1946), Dalupiri Is. (Gilbert 1947), San Isidro (Gilbert 1947), Pangapuyan Is. (Gilbert 1947), Sangali (Gilbert 1947), Balas (Gilbert 1947), Varadero Bay (Gilbert 1947), San Teodoro (Gilbert 1947), Taytay (Gilbert 1947), Zamboanga (Gilbert 1947), Sta. Cruz Is. (Gilbert 1947), Sibago Is. (Gilbert 1947), Tabtabon Is. (Gilbert 1947), Lanhil Is. (Gilbert 1947), Bilang-Bilang (Gilbert 1947), Labuan (Gilbert 1947), Bavara (Gilbert 1947), Siasi Is. (Gilbert 1947), Saluping Is. (Gilbert 1947), Atong-Atong (Gilbert 1947), Manicaan (Gilbert 1947), Philippines (Gilbert 1959), Babuyan Is. (Hillis 1959), Java (Hillis 1959), Zamboanga (Martens 1866), Punta Santiago (Martens 1866), Hundred Is. (Meñez 1961), Taytay (Taylor 1966), Pasig Bay (Taylor 1966), Laminusa Is. (Taylor 1966), Pearl Bank (Taylor 1966), Cagayan Sulu (Taylor 1966), Sibutu Is. (Taylor 1966), Balabac Is. (Taylor 1966), Dumaguete (Reyes 1970).

HALIMEDA GIGAS

Hundred Is. (Domantay 1961).

HALIMEDA GRACILIS

Philippines (Gilbert 1946), Philippines (Gilbert 1959).

HALIMEDA INCRASSATA

Philippines (Gilbert 1959), Sulu Arch. (Hillis 1959).

HALIMEDA MACROLOBA

Sulu Is. (Barton 1901), Mactan Is. (Dickie 1876), Lucap Bay (Domantay 1961), Hundred Is. (Domantay 1961), Panakalan Is. (Domantay 1961), Tandoyong Is. (Domantay 1961), Currimao (Gilbert 1947), San Fernando (Gilbert 1947), Basiad (Gilbert 1947), Lubang (Gilbert 1947), Puerto Galera (Gilbert 1947), Culion Is. (Gilbert 1947), Taytay (Gilbert 1947), Zamboanga (Gilbert 1947), Tumakid (Gilbert 1947), Bilang Bilang (Gilbert 1947), Basilan Is. (Gilbert 1947), Baluk Baluk Is. (Gilbert 1947), Balabac Is. (Gilbert 1947), Philippines (Gilbert 1946), Philippines (Gilbert 1959), Philippines (Heydrich 1894), Mindoro (Hillis 1959), Philippines (Montagne 1844), Paniquian Is. (Moul 1964), Alabat Is. (Taylor 1966), Basiad (Taylor 1966), Hundred Is. (Taylor 1966), Alaminos (Taylor 1966), Batangas Ch (Taylor 1966), Puerto Galera (Taylor 1966), Biliran Is. (Taylor 1966), Cabasihan (Taylor 1966), Puerto Princesa (Taylor 1966), Sibutu Is. (Taylor 1966), Taganak Is. (Taylor 1966), Pearl Bank (Taylor 1966), Philippines (Weber van Bosse 1913), Dumaguete (Reyes 1970).

HALIMEDA MACROPHYSA

Muaras Reef (Barton 1901), Taganak Is. (Taylor 1966).

HALIMEDA MICRONESICA

Philippines (Gilbert 1959), Basilan Is. (Hillis 1959), Tawi-Tawi Is. (Taylor 1966).

HALIMEDA MONILE

Philippines (Gilbert 1959), Culion Is. (Gilbert 1947), Basiad (Gilbert 1947), Labuan (Gilbert 1947).

HALIMEDA OPUNTIA

North Ubian Is. (Barton 1901), North Ubian (Barton 1901), Mactan Is. (Dickie 1876), Sta. Cruz Is. (Dickie 1876), Lucap Bay (Domantay 1961), Hundred Is. (Domantay 1961), Panakalan Is. (Domantay 1961), Tandoyong Is. (Domantay 1961), Calayan Is. (Gilbert 1947), Dalupiri Is.(Gilbert 1947), Basiad (Gilbert 1947), Lubang (Gilbert 1947), Puerto Galera (Gilbert 1947), Liloan (Gilbert 1947), Puerto Princesa (Gilbert 1947), Sta. Cruz Is. (Gilbert 1947), Basilan Is. (Gilbert 1947), Taytay (Gilbert 1947), Culion Is. (Gilbert 1947), Paniquian Is. (Gilbert 1947), Cebu Is. (Gilbert 1947), Calarian (Gilbert 1947), Siasi Is. (Gilbert 1947), Wawa (Gilbert 1947), Basiad Tayabas (Gilbert 1947), Liksapi (Gilbert 1947), North Ubian Is. (Gilbert 1947), Punta Matangal (Gilbert 1947), Philippines (Gilbert 1946), Philippines (Gilbert 1959), Sulu Arch. (Hillis 1959), Luzon (Hillis 1959), Zamboanga (Hillis 1959), Punta Santiago (Martens 1866), Zamboanga (Martens 1866), Hundred Is. (Meñez 1961), Paniquian Is. (Moul 1964), Calayan Is. (Taylor 1966), Alabat Is. (Taylor 1966), Basiad (Taylor 1966), Catanduanes Is. Taylor 1966), Batangas Ch. (Taylor 1966), Biliran Is. (Taylor 1966), Baliangao (Taylor 1966), Taytay (Taylor 1966), Puerto Princesa (Taylor 1966), Balabac Is. (Taylor 1966), Siasi Is. Taylor 1966), Laminusa Is. (Taylor 1966), Tawi-Tawi Is. (Taylor 1966), Sibutu Is. (Taylor 1966), Taganak Is. (Taylor 1966), Sitankai (Taylor 1966), Philippines (Weber van Bosse 1913); Dumaguete (Reyes 1970).

HALIMEDA TRIDENS

Tumakid (Gilbert 1947), Zamboanga (Gilbert 1947), Lanhil Is. (Gilbert

1947), Basilan Is. (Gilbert 1947), North Ubian Is. (Gilbert 1947), Siasi Is. (Gilbert 1947), Culion Is. (Gilbert 1947), Sta. Cruz Is. (Gilbert 1947).

HALIMEDA TRILOBA
Philippine Is. (Bailey & Harvey 1874), Punta Santiago (Martens 1866), Philippine Is. (Bailey & Harvey 1862), Philippine Is. (Bailey & Harvey 1862).

HALIMEDA TUNA
Zamboanga (Dickie 1876), Lucap Bay (Domantay 1961), Hundred Is. (Domantay 1961), Panakalan Is. (Domantay 1961), Tandoyong Is. (Domantay 1961), Philippines (Gilbert 1959), Philippines (Gilbert 1946), Currimao (Gilbert 1947), Daron (Gilbert 1947), Sta. Cruz Is. (Gilbert 1947), Boboh (Gilbert 1947), Paniquian Is. (Gilbert 1947), Muelle (Gilbert 1947), Puerto Galera (Gilbert 1947), Culion Is. (Gilbert 1947), Basilan Is. (Gilbert 1947), Sibakel Is. (Gilbert 1947), Kilay Is. (Gilbert 1947), Kauluan Is. (Gilbert 1947), Siasi Is. (Gilbert 1947), Bilang Bilang (Gilbert 1947), Sulu Arch. (Hillis 1959), Hundred Is. (Meñez 1961), Batan Is. (Taylor 1966).

HALIMEDA VELASQUEZII
Sta. Ana (Taylor 1966).

HALOPLEGMA DUPERREYI
Philippines (Weber van Bosse 1923).

HALYCORYNE WRIGTII
Dumaguete (Reyes 1970).

HALYMENIA DILATATA
Hundred Is. (Domantay 1961).

HALYMENIA DURVILLAEI
Zamboanga (Martens 1866), Philippines (Weber van Bosse 1921); Dumaguete (Reyes 1970).

HALYMENIA FORMOSA
Hundred Is. (Domantay 1961).

HALYMENIA HARVEYANA
Hundred Is. (Meñez 1961).

HALYMENIA MACULATA
Hundred Is. (Domantay 1961).

HANTZSCHIA AMPHIOXYS
Lanao (Hustedt 1942), Uyaan (Hustedt 1942).

HANTZSCHIA SIGMA
Manila (Hustedt 1942).

HERPOSIPHONIA DELICATULA
Davao, Mind. (Hollenberg 1968).

HERPOSIPHONIA PACIFICA
Mawes Is. (Hollenberg 1968).

HERPOSIPHONIA PARCA
Davao, Mind. (Hollenberg 1968), Laminusa Is. (Hollenberg 1968), Balabac Is. (Hollenberg 1968).

HERPOSIPHONIA PROREPENS
Philippines (Weber van Bosse 1923).

HERPOSIPHONIA TENELLA
Balabac Is. (Hollenberg 1968), Siasi Is. (Hollenberg 1968), Mawes Is. (Hollenberg 1968), Batangas (Cornejo & Velasquez 1970).

HETEROSIPHONIA MUELLERI
Philippines (Weber van Bosse 1923).

HORMOPHYSA TRIQUETRA
Lamao (Taylor 1966), Limay (Taylor 1966), Alaminos (Taylor 1966), San Fernando (Taylor 1966).

HYDROCLATHRUS CANCELLATUS
Hundred Is. (Meñez 1961), Philippines (Velasquez 1948), Puerto Galera (Velasquez 1953), Palawan (Velasquez 1953), Sulu Arch. (Velasquez 1953), Luzon (Velasquez 1953), Hundred Is. (Velasquez 1953), Quezon (Velasquez 1953), Philippines (Weber van Bosse 1913).

HYDROCLATHRUS CLATHRATUS
Hundred Is. (Domantay 1961), Hundred Is. (Taylor 1966) ,Balabac Is. (Taylor 1966), Gnat Reef (Taylor 1966); Dumaguete (Reyes 1970).

HYDROCLATHRUS ORIENTALIS
Manila (Heydrich 1894).

HYPNEA CERVICORNIS
Philippines (Weber van Bosse 1928).

HYPNEA CHAROIDES
Hundred Is. (Meñez 1961), Dumaguete (Reyes 1970).

HYPNEA CORNUTA
Dumaguete (Reyes 1970).

HYPNEA DIVARICATA
Zamboanga (Martens 1866), Cavite (Piccone 1866).

HYPNEA ESPERI
Dumaguete (Reyes 1970).

HYPNEA MUSCIFORMIS
Philippines (Howe 1932), Luzon (Velasquez 1952), Visayas (Velasquez 1952), Puerto Galera (Velasquez 1953), Palawan (Velasquez 1953), Sulu Arch. (Velasquez 1953), Luzon (Velasquez 1953), Hundred Is. (Velasquez 1953), Quezon (Velasquez 1953), Luzon (Velasquez 1952), Palawan (Velasquez 1952), Visayas (Velasquez 1952), Manila Bay (Cantoria & Valen & Velas 1951).

HYPNEA NIDULANS
Philippines (Weber van Bosse 1928), Hundred Is. (Domantay 1961), Hundred Is. (Meñez 1961).

HYPNEA SPINELLA
Zamboanga (Dickie 1876).

HYPNEA VALENTIAE
Philippines (Montagne 1844), Hundred Is. (Domantay 1961).

HYPOGLOSSUM ATTENUATUM
Panakalan Is. (Domantay 1961).

HYPOGLOSSUM SERRULATUM
Philippines (Weber van Bosse 1923).

HYPOGLOSSUM SPATHULATUM
Philippines (Weber van Bosse 1923).

ISTHMIA MINIMA
Sulu Sea (Bailey 1853), Sulu Sea (Bailey & Harvey 1862).

JANETOSPHAERA AUREA
Manila (Shaw 1922).

JANIA RUBENS
Hundred Is. (Meñez 1961), Dumaguete (Reyes 1970).

JANIA TENELLA
Hundred Is. (Domantay 1961), Batangas (Cornejo & Velasquez 1970).

JANIA TENUISSIMA
Ticao Is. (Piccone 1866).

LAGENA WILLIAMSONII
Mindanao (Bailey & Harvey 1862).

LAURENCIA CARTILAGINEA
Hundred Is. (Meñez 1961), Surigao Phil. (Saito 1969), Dumaguete (Reyes 1970).

LAURENCIA CEYLANICA
Hundred Is. (Meñez 1961).

LAURENCIA CLAVATA
Philippines (Weber van Bosse 1923).

LAURENCIA CONCINNA
Sta. Cruz Is. (Dickie 1876), Philippines (Weber van Bosse 1923).

LAURENCIA DENDROIDEA
Philippines (Weber van Bosse 1923).

LAURENCIA JAPONICA
Hundred Is. (Meñez 1961), Quezon P Phil. (Saito 1969), Palawan Is. Phil. (Saito 1969).

LAURENCIA MAJUSCULA
Albay Phil. (Saito 1969), Pangasinan (Saito 1969).

LAURENCIA MARIANNENSIS
Philippines (Saito 1969).

LAURENCIA OBTUSA
Philippines (Martens 1866), Hundred Is. (Meñez 1961), Philippines (Montagne 1844), Albay P Phil. (Saito 1969), Mindanao Phil. (Saito 1969).

LAURENCIA PAPILLOSA
Philippine Is. (Bailey & Harvey 1874), Philippine Is. (Bailey & Harvey 1862), Zamboanga (Dickie 1876), Hundred Is. (Domantay 1961), Philippines (Martens 1866), Philippines (Montagne 1844), Catanduanes P (Saito 1969), Philippine Is. (Bailey & Harvey 1862), Dumaguete (Reyes 1970).

LAURENCIA PARVIPAPILLATA
Palawan (Saito 1969).

LAURENCIA PINNATIFIDA
Philippines (Weber van Bosse 1923).

LAURENCIA SUBSIMPLEX
Catanduanes (Saito 1969).

LEATHESIA DIFFORMIS
Tandoyong Is. (Domantay 1961).

LEVEILLEA GRACILIS
Manila (Martens 1866).

LEVEILLEA JUNGERMANNIOIDES
Hundred Is. (Meñez 1961), Dumaguete (Reyes 1970), Batangas (Cornejo & Velasquez 1970).

LIAGORA BOERGESENII
Dumaguete (Reyes 1970).

LIAGORA CENOMYCE
Philippines (Montagne 1844), Manila (Martens 1866), Dumaguete (Reyes 1970).

LIAGORA CERANDIDES
Dumaguete (Reyes 1970).

LIAGORA DIVARICATA
Hundred Is. (Domantay 1961).

LIAGORA FARINOSA
Dumaguete (Reyes 1970).

LIAGORA HAWAIIANA
Hundred Is. (Meñez 1961).

LIAGORA JAPONICA
Hundred Is. (Domantay 1961).

LIAGORA PULVERULENTA
Philippines (Weber van Bosse 1921).

LIAGOROPSIS SCHRAMMI
Libog (Doty & Abbott 1964).

LITHOPHYLLUM MOLUCCENSE
Muaras-Reef (Weber & Foslie 1904), Kawio Is. (Weber & Foslie 1904), Beo (Weber & Foslie 1904), Kamboling Is. (Weber & Foslie 1904).

LITHOPHYLLUM OKAMURAI
Hundred Is. (Domantay 1961).

LITHOPHYLLUM OKAMURA
North Ubian (Weber & Foslie 1904), Pulu Tongkil (Weber & Foslie 1904).

LITHOTHAMNION AUSTRALE
North Ubian (Weber & Foslie 1904), Kapul Is. (Weber & Foslie 1904), Pulu Tongkil (Weber & Foslie 1904).

LITHOTHAMNION BYSSOIDES
Zamboanga (Dickie 1876).

LITHOTHAMNION CALCAREUM
Puerto Galera (Velasquez 1953), Palawan (Velasquez 1953), Sulu Arch. (Velasquez 1953), Luzon (Velasquez 1953), Hundred Is. (Velasquez 1953), Quezon (Velasquez 1953).

LITHOTHAMNION FRUTICULOSUM
Pulu Tongkil (Weber & Foslie 1904), Lirung (Weber & Foslie 1904).

LITHOTHAMNION POLYMORPHUM
Philippines (Piccone 1889), Zamboanga (Dickie 1876).

LITHOTHAMNION PULCHRUM
Sailus Besar (Foslie 1901), Pearl Bank (Weber & Foslie 1904).

LITHOTHAMNION SIAMENSE
Pulu-Tongkil (Weber & Foslie 1904).

LITHOTHAMNION SIMULANS
Tawi-tawi (Weber & Foslie 1904).

LOPHOCLADIA LALLEMANDI
Philippines (Weber van Bosse 1923).

LOPHOSIPHONIA CRISTATA
Benticayan (Hollenberg 1968).

LYNGBYA FERRUGINEA
Zamboanga (Dickie 1876).

LYNGBYA MAJUSCULA
Sta. Cruz Is. (Dickie 1876), Dumaguete (Reyes 1970); Batangas (Cornejo & Velasquez 1970).

MARTENSIA SPECIOSA
Philippines (Weber van Bosse 1923).

MASTOPHORA MACROCARPA
Philippines (Weber & Foslie 1904).

MASTOPHORA DECAISNEI
Manila (Martens 1866).

MASTOPHORA LICHENIFORMIS
Philippines (Montagne 1844).

MASTOPHORA MACROCARPA
Kawio Is. (Weber & Foslie 1904), Kamboling Is. (Weber & Foslie 1904).

MASTOPHORA MELOBESIOIDES
Kapul Is. (Weber & Foslie 1904), Pulu Tongkil (Weber & Foslie 1904), Biaru Is. (Weber & Foslie 1904), Lirung (Weber & Foslie 1904).

MASTOPHORA ROSEA
Hundred Is. (Domantay 1961), Dumaguete (Reyes 1970).

MELOBESIA FARINOSA
Hundred Is. (Domantay 1961), Philippines (Piccone 1889), North-Ubian (Weber & Foslie 1904), Beo (Weber & Foslie 1904).

MELOBESIA FOLIACEA
Zamboanga (Dickie 1876).

MELOSIRA GRANULATA
Laguna Bay (Hustedt 1942), Manila (Hustedt 1942), Lyon (Hustedt 1942), Los Baños (Hustedt 1942), Bunot Lake (Hustedt 1942), Trouble Crk (Hustedt 1942), Bato Lake (Hustedt 1942), Crater Lake (Hustedt 1942), Buhi (Hustedt 1942), Dolores (Hustedt 1942), Calibato Lake (Hustedt 1942), Calapan Lake (Hustedt 1942), Singuan Lake (Hustedt 1942), Bratan Hustedt 1942).

MELOSIRA OCTOGONA
Luzon (Hustedt 1942).

MELOSIRA ROESEANA
Danao Lake (Hustedt 1942), Buhi Lake (Hustedt 1942), Pancipit (Hustedt 1942), Masarong (Hustedt 1942).

MELOSIRA RUTTNERI
Buhi Lake (Hustedt 1942).

MELOSIRA SIMILIS
Laguna Bay (Hustedt 1942).

MELOSIRA UNDULATA
Danao Lake (Hustedt 1942), Bratan (Hustedt 1942).

MELOSIRA VARIANS
Laguna Bay (Hustedt 1942), Lyon (Hustedt 1942).

MERIDON CIRCULARE
Laguna Bay (Hustedt 1942).

MERRILLOSPHAERA CARTERI
Manila (Shaw 1922).

MERRILLOSPHAERA AFRICANA
Manila (Shaw 1922).

MESOGLOEA MICROCARPA
Philippines (Montagne 1844), Philippines (Martens 1866).

MICROCLADIA GLANDULOSA
Hundred Is. (Domantay 1961).

MICRODICTYON AGARDHIANUM
Dumaguete (Reyes 1970).

MICRODICTYON CLATHRATUM
Zamboanga (Martens 1866).

MICRODICTYON MONTAGNEI
Little Sta. Cruz Is. (Gilbert 1959), Calarian (Gilbert 1959), Cabaluay (Gilbert 1959), Balas (Gilbert 1959), Punta Mariki (Gilbert 1959), Manicaan (Gilbert 1959), Pangapuyan Is. (Gilbert 1959), Panubigan

Is. (Gilbert 1959), Punta Matangal (Gilbert 1959), Sibakel (Gilbert 1959), Tanusa (Gilbert 1959), San Ramon (Taylor 1966), Siasi Is. (Taylor 1966), Sitankai (Taylor 1966), Tawi-Tawi (Taylor 1966).

MICRODICTYON UMBILICATUM
Philippines (Weber van Bosse 1913).

MICRODICTYON VANBOSSAE
Lirung (Setchell 1929), Lirung (Setchell 1926).

MONOSTROMA LATISSIMUM
Taytay (Taylor 1966).

MONOSTROMA NITIDUM
Puerto Galera (Gilbert 1959), Medio Is. (Gilbert 1959), Taytay (Gilbert 1959).

NAVICULA AMERICANA
Laguna Bay (Hustedt 1942), Buhi (Hustedt 1942), Los Baños (Hustedt 1942), Uyaan (Hustedt 1942).

NAVICULA ANGLICA
Lanao (Hustedt 1942).

NAVICULA ARVENSIS
Crater Lake (Hustedt 1942).

NAVICULA BACILLIFORMIS
Buhi (Hustedt 1942).

NAVICULA BACILLUM
Buhi (Hustedt 1952), Manila (Hustedt 1942), Los Baños (Hustedt 1942).

NAVICULA BREKKAENSIS
Luzon (Hustedt 1942).

NAVICULA BRYOPHILA
Dagiangan (Hustedt 1942), Uyaan (Hustedt 1942).

NAVICULA CARI
Los Baños (Hustedt 1942), Dagatan (Hustedt 1942), Uyaan (Hustedt 1942), Danao Hustedt 1942).

NAVICULA CITRUS
Laguna Bay (Hustedt 1942).

NAVICULA CONFERVACEA
Laguna Bay (Hustedt 1942), Taal (Hustedt 1942), Buhi (Hustedt 1942), Manila (Hustedt 1942), Lyon (Hustedt 1942), Los Baños (Hustedt 1942), Dagatan (Hustedt 1942), Naujan (Hustedt 1942), Calapan (Hustedt 1942), Danao (Hustedt 1942), Lanao (Hustedt 1942).

NAVICULA CONTENTA
Buhi (Hustedt 1942).

NAVICULA CRYPTOCEPHALA
Laguna Bay (Hustedt 1942), Buhi (Hustedt 1942), Manila (Hustedt 1942), Los Baños (Hustedt 1942), Naujan (Hustedt 1942), Lanao (Hustedt 1942).

NAVICULA CUSPIDATA
Buhi (Hustedt 1942), Singuan (Hustedt 1942).

NAVICULA DICEPHALA
Los Baños (Hustedt 1942), Buhi (Hustedt 1942).

NAVICULA ELEGANTOIDES
Laguna Bay (Hustedt 1942), Buhi (Hustedt 1942), Lyon (Hustedt 1942), Los Baños (Hustedt 1942).

NAVICULA ELONGATA
Philippine Is. (Bailey 1853), Mindanao (Bailey & Harvey 1862).

NAVICULA EXIGUA
Buhi (Hustedt 1942), Uyaan (Hustedt 1942).

NAVICULA GRIMMEI
Buhi (Hustedt 1942), Lyon (Hustedt 1942), Lanao (Hustedt 1942).

NAVICULA HALOPHILA
Lyon (Hustedt 1942), Los Baños (Hustedt 1942), Lanao (Hustedt 1942), Uyaan (Hustedt 1942).

NAVICULA INSIGNITA
Laguna Bay (Hustedt 1942), Lyon (Hustedt 1942).

NAVICULA INSOCIABILIS
Luzon (Hustedt 1942).

NAVICULA LAGERHEIMI
Laguna Bay (Hustedt 1942), Buhi (Hustedt 1942), Lyon (Hustedt 1942), Los Baños (Hustedt 1942), Naujan (Hustedt 1942), Lanao (Hustedt 1942), Uyaan (Hustedt 1942).

NAVICULA LANCEOLATA
Uyaan (Hustedt 1942).

NAVICULA LUZONENSIS
Buhi (Hustedt 1942).

NAVICULA LYRA
Philippine Is. (Bailey 1853).

NAVICULA MESOLEIAE
Lanao (Hustedt 1942), Uyaan (Hustedt 1942), Laguna Bay (Hustedt 1942), Taal (Hustedt 1942), Los Baños (Hustedt 1942), Buhi (Hustedt 1942), Naujan (Hustedt 1942).

NAVICULA MENISCULUS
Taal (Hustedt 1942), Buhi (Hustedt 1942).

NAVICULA MINIMA
Buhi (Hustedt 1942).

NAVICULA MINUSCULA
Lanao (Hustedt 1942).

NAVICULA MUCICOLOIDES
Lyon (Hustedt 1942).

NAVICULA MURALIS
Buhi (Hustedt 1942).

NAVICULA MUTICA
Laguna Bay (Hustedt 1942), Buhi (Hustedt 1942), Los Baños (Hustedt 1942), Taal (Hustedt 1942), Lanao (Hustedt 1942), Uyaan (Hustedt 1942).

NAVICULA PSEUDOBRYOPHILA
Danao (Hustedt 1942).

NAVICULA PUPULA
Laguna Bay (Hustedt 1942), Bunot (Hustedt 1942), Buhi (Hustedt 1942), Manila (Hustedt 1942), Lyon (Hustedt 1942), Bato (Hustedt 1942), Los Baños (Hustedt 1942), Dagatan (Hustedt 1942), Naujan (Hustedt 1942), Lanao (Hustedt 1942), Uyaan (Hustedt 1942), Seit (Hustedt 1942).

NAVICULA PYGMAEA
Laguna Bay (Hustedt 1942), Buhi (Hustedt 1942), Lyon (Hustedt 1942), Los Baños (Hustedt 1942), Lanao (Hustedt 1942), Seit (Hustedt 1942).

NAVICULA RADIOSA
Laguna Bay (Hustedt 1942), Buhi (Hustedt 1942), Manila (Hustedt 1942), Lyon (Hustedt 1942), Dagatan (Hustedt 1942), Danao (Hustedt 1942), Lanao (Hustedt 1942), Dagiangan (Hustedt 1942), Uyaan (Hustedt 1942).

NAVICULA RHYNCHOCEPHALA
Laguna Bay (Hustedt 1942).

NAVICULA RIPARIA
Dagatan (Hustedt 1942).

NAVICULA RUTTNERI
Buhi (Hustedt 1942), Manila (Hustedt 1942), Naujan (Hustedt 1942), Lanao (Hustedt 1942).

NAVICULA SCHONFELDI
Naujan (Hustedt 1942).

NAVICULA SCHROETERI
Laguna Bay (Hustedt 1942), Taal (Hustedt 1942), Naujan (Hustedt 1942).

NAVICULA SCUTELLOIDES
Los Baños (Hustedt 1942).

NAVICULA SEMINULUM
Buhi (Hustedt 1942), Lanao (Hustedt 1942).

NAVICULA SUBARVENSIS
Buhi (Hustedt 1942).

NAVICULA SUBDECUSSIS
Manila (Hustedt 1942).

NAVICULA SUBRHYNCHOCEPHALA
Laguna Bay (Hustedt 1942), Buhi (Hustedt 1942), Manila (Hustedt 1942), Los Baños (Hustedt 1942), Danao (Hustedt 1942).

NAVICULA VARIOSTRIATA
Laguna Bay (Hustedt 1942).

NAVICULA VIRIDULA
Buhi (Hustedt 1942), Los Baños (Hustedt 1942).

NEIDIUM AFFINE
Manila (Hustedt 1942), Uyaan (Hustedt 1942), Buhi (Hustedt 1942).

NEIDIUM GRACILE
Philippines (Hustedt 1942), Buhi (Hustedt 1942).

NEIDIUM IRIDIS
Laguna Bay (Hustedt 1942), Buhi (Hustedt 1942), Manila (Hustedt (1942), Danao (Hustedt 1942), Uyaan (Hustedt 1942).

NEMALIONOPSIS SHAWI
Philippines (Kylin 1956).

NEOMERIS ANNULATA
Philippines (Gilbert 1959), Puerto Galera (Gilbert 1943), Paniquian Is. (Gilbert 1943), Hundred Is. (Meñez 1961).

NEOMERIS VANBOSSEAE
Tayabas (Gilbert 1943), Lamao (Gilbert 1943), Puerto Galera (Gilbert 1943), Medio Is. (Gilbert 1943), Philippines (Gilbert 1943), Lucap Bay (Domantay 1961), Balabac Is. (Taylor 1966), Hundred Is. (Meñez 1961), Dumaguete (Reyes 1970).

NEURYMENIA FRAXINIFOLIA
Sta. Cruz Is. (Dickie 1876).

NITOPHYLLUM TONGATENSE
Philippines (Weber van Bosse 1923).

NITZSCHIA ACICULARIS
Laguna Bay (Hustedt 1942), Manila (Hustedt 1942), Los Baños (Hustedt 1942), Lanao (Hustedt 1942).

NITZSCHIA AMPHIBIA
Laguna Bay (Hustedt 1942), Bunot (Hustedt 1942), Taal (Hustedt 1942), Buhi (Hustedt 1942), Manila (Hustedt 1942), Los Baños (Hustedt 1942), Dagatan (Hustedt 1942), Naujan (Hustedt 1942), Danao (Hustedt 1942), Lanao (Hustedt 1942), Batur (Hustedt 1942).

NITZSCHIA BACATA
Manila (Hustedt 1942).

NITZSCHIA CLAUSII
Buhi (Hustedt 1942).

NITZSCHIA COMMUNIS
Bunot (Hustedt 1942), Los Baños (Hustedt 1942).

NITZSCHIA DEBILIS
Lanao (Hustedt 1942).

NITZSCHIA DISSIPATA
Buhi (Hustedt 1942).

NITZSCHIA FONTICOLA
Buhi (Hustedt 1942).

NITZSCHIA FRUSTULUM
Laguna Bay (Hustedt 1942), Bunot (Hustedt 1942), Taal (Hustedt 1942), Calibato (Hustedt 1942), Dolores (Hustedt 1942), Buhi (Hustedt 1942), Naujan (Hustedt 1942), Lanao (Hustedt 1942), Ewa (Hustedt 1942), Laie (Hustedt 1942), Danao (Hustedt 1942).

NITZSCHIA GRACILIS
Buhi (Hustedt 1942), Dagatan (Hustedt 1942), Batur (Hustedt 1942).

NITZSCHIA GRANULATA
Lyon (Hustedt 1942), Lanao (Hustedt 1942).

NITZSCHIA INGENUS
Lanao (Hustedt 1942), Buhi (Hustedt 1942).

NITZSCHIA INSECTA
Crater Lake (Hustedt 1942).

NITZSCHIA INTERMEDIA
Manila (Hustedt 1942), Dagatan (Hustedt 1942).

NITZSCHIA INVICTA
Luzon (Hustedt 1942).

NITZSCHIA IRREPTA
Buhi (Hustedt 1942).

NITZSCHIA LORENZIANA
Buhi (Hustedt 1942).

NITZSCHIA LUZONENSIS
Taal (Hustedt 1942).

NITZSCHIA PALEA
Bunot (Hustedt 1942), Taal (Hustedt 1942), Buhi (Hustedt 1942), Manila (Hustedt 1942), Los Baños (Hustedt 1942), Dagatan (Hustedt 1942), Calapan (Hustedt 1942), Naujan (Hustedt 1942).

NITZSCHIA PARVULA
Naujan (Hustedt 1942).

NITZSCHIA PHILIPPINARUM
Taal (Hustedt 1942), Calibato (Hustedt 1942), Buhi (Hustedt 1942).

NITZSCHIA PSEUDOANPHIOXYS
Luzon (Hustedt 1942).

NITZSCHIA PUNCTATA
Lyon (Hustedt 1942), Los Baños (Hustedt 1942), Buhi (Hustedt 1942), Lanao (Hustedt 1942).

NITZSCHIA SIGMA
Laguna Bay (Hustedt 1942).

NITZSCHIA SIGMOIDEA
Lyon (Hustedt 1942), Calapan (Hustedt 1942), Lanao (Hustedt 1942).

NITZSCHIA STAGNORUM
Laguna Bay (Hustedt 1942), Los Baños (Hustedt 1942).

NITZSCHIA SUBROSTRATA
Buhi (Hustedt 1942), Los Baños (Hustedt 1942).

NITZSCHIA TRYBLIONELLA
Laguna Bay (Hustedt 1942), Los Baños (Hustedt 1942), Taal (Hustedt 1942), Lyon (Hustedt 1942), Buhi (Hustedt 1942).

NITZSCHIA VITREA
(Laguna Bay (Hustedt 1942).

NITZSCHIA WOLTERECKI
Manila (Hustedt 1942).

OEDOGONIUM CIRCUMLINEATUM
Palo (Britton 1948).

OEDOGONIUM DISCRETUM
San Joaquin (Tiffany 1951).

OEDOGONIUM HIANS
Palo (Britton 1948).

OEDOGONIUM PALOENSE
Palo (Britton 1948).

OEDOGONIUN PHILIPPINENSE
Palo (Britton 1948).

OEDOGONIUM PUDICUM
San Joaquin (Tiffany 1951).

OEDOGONIUM VISAYENSE
Palo (Britton 1948).

OPEPHYLLUM MARTENSII
Philippines (Kylin 1956).

OSCILLARIA GRACILLIMA
Camiguin Is. (Dickie 1876).

OSCILLATORIA BREVIS
Luar Batang (Koster 1957).

PADINA AUSTRALIS
Tandoyong Is. (Domantay 1961), Telbang (Domantay 1961), Philippines (Howe 1932), Tayabas (Taylor 1966), Lamao (Taylor 1966), Alaminos (Taylor 1966), Bonbon (Taylor 1966), Tacloban (Taylor 1966), Taytay (Taylor 1966), Balabac Is. (Taylor 1966), Baliangao (Taylor 1966), Dumaguete (Reyes 1970).

PADINA BORYANA
Calayan Is. (Taylor 1966), Baler (Taylor 1966), Polillo (Taylor 1966), Catanduanes (Taylor 1966), Pasal Pt. (Taylor 1966), Balabac Is. (Taylor 1966), Jolo Is. (Taylor 1966).

PADINA COMMERSONII
Tandoyong Is. (Domantay 1961), Telbang (Domantay 1961).

PADINA DISTROMATICA
Hundred Is. (Taylor 1966), Puerto Galera (Taylor 1966), Guindulman (Taylor 1966), Philippines (Howe 1932).

PADINA FRASERI
Gonzaga (Taylor 1966), San Fernando (Taylor 1966), Magsingal (Taylor 1966).

PADINA GYMNOSPORA
Tualog (Taylor 1966).

PADINA JAPONICA
Tandoyong Is. (Domantay 1961), Telbang (Domantay 1961), Adiaguao (Taylor 1966).

PADINA PAVONIA
Mindanao (Bailey & Harvey 1862), Mindanao (Bailey & Harvey 1874), Mactan Is. (Dickie 1876), Zamboanga (Dickie 1876), Hundred Is. (Meñez 1961).

PADINA TETRASTROMATICA
Pasay (Taylor 1966), Malate (Taylor 1966), Cabcaban (Taylor 1966).

PEYSSONNELIA CALCEA
Hundred Is. (Domantay 1961).

PEYSSONNELIA CONCHICOLA
Philippines (Weber van Bosse 1921).

PEYSSONNELIA EVAE
Philippines (Weber van Bosse 1921).

PEYSSONNELIA OBSCURA
Philippines (Weber van Bosse 1921).

PEYSSONNELIA RUBRA
Sta. Cruz Is. (Dickie 1876), Philippines (Weber van Bosse 1921).

PHAEOPHILA DENDROIDES
San Pio Quinto (Tanaka 1967).

PHYCOSERIS RETICULATA
Batangas (Martens 1866), Zamboanga (Martens 1866), Cavite (Martens 1866).

PHORMIDIUM CROSBYANUM
Dumaguete (Reyes 1970).

PHORMIDIUM TINCTORIUM
Batangas (Cornejo & Velasquez 1970).

PINNULARIA ACROSPHAERIA
Buhi (Hustedt 1942), Lyon (Hustedt 1942), Los Baños (Hustedt 1942), Dagatan (Hustedt 1942), Laguna Bay (Hustedt 1942), Naujan (Hustedt 1942), Danao (Hustedt 1942), Lanao (Hustedt 1942).

PINNULARIA BOREALIS
Laguna Bay (Hustedt 1942), Danao (Hustedt 1942).

PINNULARIA BRAUNII
Buhi (Hustedt 1942), Los Baños (Hustedt 1942), Calapan (Hustedt 1942), Bratan (Hustedt 1942).

PINNULARIA BREVICOSTATA
Laguna Bay (Hustedt 1942), Dagatan (Hustedt 1942), Calapan (Hustedt 1942, Danao (Hustedt 1942), Lanao (Hustedt 1942).

PINNULARIA DIDYMA
Philippine Is. (Bailey 1853), Mindanao (Bailey & Harvey 1862).

PINNULARIA DIVERGENS
Uyaan (Hustedt 1942).

PINNULARIA GIBRA
Laguna Bay (Hustedt 1942), Buhi (Hustedt 1942), Dagatan (Hustedt 1942), Calapan (Hustedt 1942), Uyaan (Hustedt 1942), Lanao (Hustedt 1942).

PINNULARIA GRACILOIDES
Buhi (Hustedt 1942), Danao (Hustedt 1942), Lanao (Hustedt 1942).

PINNULARIA HARTLEYANA
Danao (Hustedt 1942), Uyaan (Hustedt 1942).

PINNULARIA INTERRUPTA
Laguna Bay (Hustedt 1942), Buhi (Hustedt 1942), Los Baños (Hustedt 1942), Dagatan (Hustedt 1942), Danao (Hustedt 1942), Uyaan (Hustedt 1942).

PINNULARIA IRRORATA
Laguna Bay (Hustedt 1942).

PINNULARIA LEPTOSOMA
Uyaan (Hustedt 1942).

PINNULARIA MAJOR
Danao (Hustedt 1942), Lanao (Hustedt 1942).

PINNULARIA MICROSTAURON
Danao (Hustedt 1942), Uyaan (Hustedt 1942).

PINNULARIA NODOSA
Laguna Bay (Hustedt 1942).

PINNULARIA RUTTNERI
Uyaan (Hustedt 1942).

PINNULARIA STOMATOPHORA
Dagatan (Hustedt 1942), Danao (Hustedt 1942).

PINNULARIA SUBCAPITATA
Laguna Bay (Hustedt 1942), Buhi (Hustedt 1942), Naujan (Hustedt 1942), Calapan (Hustedt 1942), Danao (Hustedt 1942), Lanao (Hustedt 1942).

PINNULARIA VIRIDIS
Laguna Bay (Hustedt 1942), Buhi (Hustedt 1942), Danao (Hustedt 1942), Lanao (Hustedt 1942), Uyaan (Hustedt 1942), Dagiangan (Hustedt 1942).

PINNULARIA WOLTERECKI
Danao (Hustedt 1942), Uyaan (Hustedt 1942), Dagiangan (Hustedt 1942).

PLEUROSIGMA SALINARUM
Lyon (Hustedt 1942).

PLOCAMIUM PATENS
Zamboanga (Martens 1866).

POCOCKIELLA VARIEGATA
Hundred Is. (Domantay 1961), Balabac Is. (Taylor 1966), Tawi-Tawi Is. (Taylor 1966).

POLLEXFENIA PEDICELLATA
Zamboanga (Martens 1866).

POLYCOELIA VANHOEVELLII
Malay Archipel. (Weber van Bosse 1914).

POLYPHYSA SPICATA
Mactan Is. (Dickie 1876), Philippines (Gilbert 1959).

POLYSIPHONIA APICULATA
Pasig Bay (Hollenberg 1968).

POLYSIPHONIA BEAUDETTII
Siasi Is. (Hollenberg 1968), Taganak Is. (Hollenberg 1968).

POLYSIPHONIA FERULACEA
Philippines (Weber van Bosse 1923).

POLYSIPHONIA GORGONIAE
Batangas (Cornejo & Velasquez 1970).

POLYSIPHONIA HAWAIIENSIS
Tijitiji (Hollenberg 1968), Gnat Reef (Hollenberg 1968).

POLYSIPHONIA HOWEI
Davao (Hollenberg 1968), Cuenco Is. (Hollenberg 1968).

POLYSIPHONIA MOLLIS
Siasi Is. (Hollenberg 1968), Philippines (Weber van Bosse 1923).

POLYSIPHONIA PENTAMERA
Salibatu Is. (Hollenberg 1968).

POLYSIPHONIA SAVATIERI
Mangagoy (Hollenberg 1968), Siasi Is. (Hollenberg 1968), Laminusa (Hollenberg 1968), Cagayan Sulu (Hollenberg 1968), Pasig Bay (Hollenberg 1968), Gnat Reef (Hollenberg 1968).

POLYSIPHONIA SCOPULORUM
Davao (Hollenberg 1968).

POLYSIPHONIA SETACEA
Mawes (Hollenberg 1968), Davao (Hollenberg 1968).

POLYSIPHONIA SPARSA
Tawi-Tawi (Hollenberg 1968), Gnat Reef (Hollenberg 1968).

POLYSIPHONIA SPHAEROCARPA
Batangas (Cornejo & Velasquez 1970).

POLYSIPHONIA UPOLENSIS
Davao (Hollenberg 1968), Tijitiji (Hollenberg 1968); Taganak Is. (Hollenberg 1968), Tawi-Tawi Is. (Hollenberg 1968), Calandorang (Hollenberg 1968).

POLYZONIA JUNGERMANNIOIDES
Ticao Is. (Piccone 1866).

PORPHYRA CRISPATA
Panakalan Is. (Domantay 1961), Tandoyong (Domantay 1961).

RHABDONIA DURA
Cavite (Piccone 1866).

RHIZOCLONIUM CRASSIPELLITUM
Las Piñas (Taylor 1966).

RHIZOCLONIUM HOOKERI
Lamao (Taylor 1966).

RHIZOCLONIUM KERNERI
Laguna Bay (Gilbert 1959).

RHIPILIOPSIS PELTATA
Sanco Point (Gilbert & Doty 1969).

RHIZOCLONIUM SETACEUM
Lamao (Gilbert 1959).

RHIZOSOLENIA ERIENSIS
Laguna Bay (Hustedt 1942).

RHODOCHORTON SINICOLA
Batangas (Cornejo & Velasquez 1970).

RHODOPELTIS BOREALIS
Hundred Is. (Domantay 1961), Hundred Is. (Meñez 1961).

RHODOPELTIS GRACILIS
Hundred Is. (Meñez 1961).

RHODOPHYLLIS PELTATA
Philippines (Weber van Bosse 1928).

RHODYMENIA SPINULOSA
Hundred Is. (Meñez 1961).

RHOPALODIA GIBRA
Laguna Bay (Hustedt 1942), Dolores (Hustedt 1942), Buhi (Hustedt 1942), Manila (Hustedt 1942), Lyon (Hustedt 1942), Los Baños (Hustedt 1942), Dagatan (Hustedt 1942), Danao (Hustedt 1942).

RHOPALODIA GIBBERULA
Taal (Hustedt 1942), Buhi (Hustedt 1942), Manila (Hustedt 1942), Lyon (Hustedt 1942), Los Baños (Hustedt 1942), Naujan (Hustedt 1942), Danao (Hustedt 1942), Lanao (Hustedt 1942), Uyaan (Hustedt 1942), Singuan (Hustedt 1942), Bratan (Hustedt 1942).

ROSCHERA CONDENSATA
Philippines (Weber van Bosse 1923).

ROSENVINGEA INTRICATA
Dumaguete (Reyes 1970).

SARGASSUM BACCIFERUM
Philippines (Montagne 1844).

SARGASSUM BELANGERI
Philippines (Martens 1866).

SARGASSUM BIFORME
Gigantes Is. (Dickie 1876).

SARGASSUM BINDERI
Cavite (Piccone 1866), Philippines (Piccone 1889).

SARGASSUM CONFUSUM
Hundred Is. (Domantay 1961).

SARGASSUM CRISTAEFOLIUM
Philippines (Montagne 1844), Manila (Martens 1866).

SARGASSUM CRISTATUM
Hundred Is. (Taylor 1966).

SARGASSUM CYSTOCARPUM
Zamboanga (Martens 1866).

SARGASSUM DUPLICATUM
Hundred Is. (Meñez 1961), Tandoyong Is. (Domantay 1961), Puerto Galera (Taylor 1966).

SARGASSUM ESPERI
Philippines (Montagne 1844), Philippines (Martens 1866).

SARGASSUM FILIFORME
Philippines (Montagne 1844), Zamboanga (Martens 1866).

SARGASSUM FULVELLUM
Hundred Is. (Domantay 1961).

SARGASSUM GIGANTEIFOLIUM
Hundred Is. (Domantay 1961).

SARGASSUM GRACILE
Mactan Is. (Dickie 1876).

SARGASSUM HEMIPHYLLUM
Hundred Is. (Domantay 1961), Philippines (Montagne 1844).

SARGASSUM ILICIFOLIUM
Zamboanga (Dickie 1876), Cavite (Piccone 1866).

SARGASSUM KJELLMANIANUM
Hundred Is. (Domantay 1961).

SARGASSUM LATIFOLIUM
Mactan Is. (Dickie 1876).

SARGASSUM NIGRIFOLIUM
Hundred Is. (Domantay 1961).

SARGASSUM PARVIFOLIUM
Mactan Is. (Dickie 1876).

SARGASSUM POLYCYSTUM
Ticao Is. (Piccone 1866), Cavite (Piccone 1866), Philippines (Montagne 1844), Philippines (Martens 1866), Philippines (Howe 1932).

SARGASSUM SANDEI
Puerto Galera (Taylor 1966).

SARGASSUM SERRATIFOLIUM
Hundred Is. (Domantay 1961).

SARGASSUM SILIQUOSUM
Ticao Is. (Piccone 1866), Cavite (Piccone 1866), Zamboanga (Martens 1866), Manila (Martens 1866), Philippines (Howe 1932).

SARGASSUM SPINIFEX
Mindanao (Bailey & Harvey 1874), Mindanao (Bailey & Harvey 1862).

SARGASSUM VULGARE
Philippines (Dickie 1875), Manila (Martens 1866).

SARGASSUM YENDOI
Tandoyong Is. (Domantay 1961).

SCINAIA HORMOIDES
Puro (Setchell 1914).

SIMPLOCA HOWEI
Dumaguete (Reyes 1970).

SPATHOGLOSSUM VARIABILE
Philippines (Weber van Bosse 1913).

SPHACELARIA FURCIGERA
Hundred Is. (Meñez 1961), Batangas (Cornejo & Velasquez 1970).

SPHACELARIA PULVINATA
Philippines (Dickie 1875).

SPHACELARIA RIGIDULA
Mindoro (Martens 1866).

SPHACELARIA TRIBULOIDES
Hundred Is. (Meñez 1961).

SPHAEROCOCCUS CONFERVOIDES
Manila (Martens 1866).

SPHAEROCOCCUS CORALLOPSIS
Zamboanga (Martens 1866).

SPHAEROCOCCUS GELATINUS
Tambobon (Martens 1866) Parañaque (Martens 1866).

SPHAEROCOCCUS LICHENOIDES
Tambobon (Martens 1866), Parañaque (Martens 1866), Zamboanga (Martens 1866).

SPONGIOLITES AGARICUS
Sulu Sea (Bailey 1853), Philippine Is. (Bailey 1853), Mindanao (Bailey & Harvey 1862), Sulu Sea (Bailey & Harvey 1862).

SPONGIOLITES ANCHORA
(Mindanao (Bailey & Harvey 1862).

SPONGOCARPUS HEMIPHYLLUS
Philippines (Martens 1866).

SPONGOCLADIA DICHOTOMA
Alaminos (Taylor 1966).

SPONGOCLADIA VAUCHERIAEFORMIS
Lubang Is. (Gilbert 1959), Jolo Is. (Gilbert 1959), Tawi-Tawi Is. (Taylor 1966).

SPYRIDIA FILAMENTOSA

Philippines (Howe 1932), Philippines (Weber van Bosse 1923), Passi Honakan (Weber van Bosse 1914), Dumaguete (Reyes 1970).

STAURONEIS ANCEPS

Buhi (Hustedt 1942), Manila (Hustedt 1942), Laguna Bay (Hustedt 1942), Taal (Hustedt 1942), Lanao (Hustedt 1942).

STAURONEIS PHOENICENTERON

Laguna Bay (Hustedt 1942), Buhi (Hustedt 1942), Lyon (Hustedt 1942), Los Baños (Hustedt 1942), Dagatan (Hustedt 1942), Naujan (Hustedt 1942), Danao (Hustedt 1942), Uyaan (Hustedt 1942).

STAURONEIS PYGMAEA

Buhi (Hustedt 1942).

STAUROPTERA ASPERA

Mindanao (Bailey & Harvey 1862).

STENOPTEROBIA INTERMEDIA

Laguna Bay (Hustedt 1942), Dagatan (Hustedt 1942), Dagiangan (Hustedt 1942), Danao (Hustedt 1942).

STEPHANODISCUS ASTRAEA

Laguna Bay (Hustedt 1942), Los Baños (Hustedt 1942), Dagatan (Hustedt 1942), Uyaan Lake (Hustedt 1942).

STEPHANODISCUS HANTZSCHII

Bato Lake (Hustedt 1942).

STICHOSIPHON SANSIBARICUS

Los Baños (Drouet & Daily 1956), Alimodian (Drouet & Daily 1956), Ranaubedalisee (Drouet & Daily 1956).

STRUVEA DELICATULA

Calarian (Gilbert 1959), Caldera Bay (Gilbert 1959), Boboh (Gilbert 1959), Philippines (Weber van Bosse 1913).

STYPODIUM FLABELLIFORME

Philippines (Weber van Bosse 1913), Hundred Is. (Domantay 1961).

SURIRELLA ANGUSTA

Laguna Bay (Hustedt 1942).

SURIRELLA BISERIATA

Laguna Bay (Hustedt 1942), Los Baños (Hustedt 1942).

SURIRELLA DELICATISSIMA

Danao (Hustedt 1942), Uyaan (Hustedt 1942).

SURIRELLA FASTUOSA

Sulu Sea (Bailey 1853), Philippine Is. (Bailey 1853), Sulu Sea (Bailey & Harvey 1862), Mindanao (Bailey & Harvey 1862).

SURIRELLA FEUERBORNI

Laguna Bay (Hustedt 1942), Buhi (Hustedt 1942).

SURIRELLA LINEARIS

Lyon (Hustedt 1942), Naujan (Hustedt 1942), Danao (Hustedt 1942), Uyaan (Hustedt 1942).

SYMPLOCA HYDNOIDES

Dumaguete (Reyes 1970).

SYNEDRA RUMPENS

Buhi (Hustedt 1942), Laguna Bay (Hustedt 1942), Lyon (Hustedt 1942),Los Baños (Hustedt 1942), Bratan (Hustedt 1942), Naujan (Hustedt 1942).

SYNEDRA ULNA

Bunot (Hustedt 1942), Calibato Lake (Hustedt 1942), Trouble Crk (Hustedt 1942), Volcano Is. (Hustedt 1942), Buhi Lake (Hustedt 1942), Manila (Hustedt 1942), Los Baños (Hustedt 1942), Taal Lake (Hustedt 1942), Dolores (Hustedt 1942), Naujan (Hustedt 1942), Lanao (Hustedt 1942), Dagianan (Hustedt 1942), Batursee (Hustedt 1942), Seit (Hustedt 1942), Panamao (Hustedt 1942), Laguna Bay (Hustedt 1942).

TABELLARIA FENESTRATA
Los Baños (Hustedt 1942), Uyaan Lake (Hustedt 1942).

TABELLARIA FLOCCULOSA
Laguna Bay (Hustedt 1942), Taal Lake (Hustedt 1942), Buhi Lake (Hustedt 1942), Manila (Hustedt 1942), Lyon (Hustedt 1942), Los Baños (Hustedt 1942), Dagatan (Hustedt 1942), Uyaan Lake (Hustedt 1942).

TAPEINODASYA BORNETII
Philippines (Weber van Bosse 1923).

TERSPINE MUSICA
(Mindanao (Bailey & Harvey 1862).

TERPSINOE MUSICA
Laguna Bay (Hustedt 1942), Trouble Crk (Hustedt 1942), Buhi Lake (Hustedt 1942), Manila (Hustedt 1942), Lyon (Hustedt 1942).

TETRAGRAMMA ASIATICA
Philippine Is. (Bailey 1853).

THAMNOCLONIUM PROCUMBENS
Philippines (Weber van Bosse 1913).

THAMNOCLONIUM TREUBII
Philippines (Weber van Bosse 1921).

TITANOPHORA WEBERAE
Hundred Is. (Domantay 1961).

TOLYPIOCLADIA CONDENSATA
Tandoyong Is. (Domantay 1961), Panakalan Is. (Domantay 1961).

TOLYPIOCLADIA GLOMERULATA
Batangas (Cornejo & Velasquez 1970).

TRICERATIUM FAVUS
Sulu Sea (Bailey 1853).

TRICERATIUM ORIENTALE
(Philippine Is. (Bailey 1853), Sulu Sea (Bailey & Harvey 1862), Mindanao (Bailey & Harvey 1862).

TRICHOGLOEA REQUIENII
Philippines (Weber van Bosse 1921).

TROPIDONEIS LEPIDOPTERA
Lyon (Hustedt 1942).

TURBINARIA CONDENSATA
Currimao (Taylor 1964), Mawes Is. (Taylor 1964), Boboh (Taylor 1964).

TURBINARIA CONOIDES
Hundred Is. (Domantay 1961), Sinait (Taylor 1964), Quezon Is. (Taylor 1964), Alaminos (Taylor 1964), Polillo (Taylor 1964), Mauban (Taylor 1964), Puerto Galera (Taylor 1964), Cebu Is. (Taylor 1964), Caldera Bay (Taylor 1964), Boboh (Taylor 1964), Tiji-Tiji Reef (Taylor 1964), Puerto Princesa (Taylor 1964), Balabac Is. (Taylor 1964), Maribojoc (Taylor 1964), Zamboanga (Taylor 1964), Taytay (Taylor 1964), Tandoyong Is. (Taylor 1964), Baliangao (Taylor 1944), Tiji-Tiji (Taylor 1966), Philippines (Howe 1932).

TURBINARIA DECURRENS

Sinait (Taylor 1964), Legaspi (Taylor 1964), Libog (Taylor 1964), Danao (Taylor 1964), Baliangao (Taylor 1964), Agonoy Is. (Taylor 1964), Mawes Is. (Taylor 1964), Daliao (Taylor 1964), Malalag (Taylor 1964), Pangayan Is. (Taylor 1964), Taganak Is. (Taylor 1966), Taganak Is. (Taylor 1966b), Pandjang Is. (Taylor 1966b).

TURBINARIA DENUDATA

Mindanao (Bailey & Harvey 1874), Philippines (Montagne 1844), Mindanao (Bailey & Harvey 1862).

TURBINARIA LUZONENSIS

Mulanay (Taylor 1964).

TURBINARIA ORNATA

Hundred Is. (Domantay 1961), Philippines (Martens 1866), Mindoro (Martens 1866), Pasig Bay (Taylor 1966), Sibutu Is. (Taylor 1966), Taganak Is. (Taylor 1966), Cagayan Sulu Is. (Taylor 1966), Dalupiri Is. (Taylor 1964), Sta. Ana (Taylor 1964), Sinait (Taylor 1964), Narvacan (Taylor 1964), Baler (Taylor 1964), Mauban (Taylor 1964), Boaya Pt. (Taylor 1964), San Isidro (Taylor 1964), Bulalacao (Taylor 1964), Culion Harbor (Taylor 1964), Baliangao (Taylor 1964), Lilion Beach (Taylor 1964), Pta. Mariki (Taylor 1964), Little Sta. Cruz (Taylor 1964), Tabtabon Is. (Taylor 1964), Sibago Is. (Taylor 1964), Sitkeang (Taylor 1964), Tengolan Is. (Taylor 1964), Jolo Is. (Taylor 1964), Cagayan Sulu Is. (Taylor 1964), Balabac Is. (Taylor 1964), Gnat Reef (Taylor 1964), Liloan (Taylor 1964), Cagayan Sulu Is. (Taylor 1966b), Padyang Is. (Taylor 1966), Dumaguete (Reyes 1970).

TURBINARIA TRIALATA

Hundred Is. (Domantay 1961), Hundred Is. (Meñez 1961).

TURBINARIA TURBINATA

Hundred Is. (Meñez 1961).

TURBINARIA VULGARIS

Mactan Is. (Dickie 1876), Sta. Cruz Is. (Dickie 1876), Philippines (Thompson & Murray 1885).

TYDEMANIA EXPEDITIONIS

Tawi-tawi Is. (Taylor 1966), Puerto Galera (Gilbert 1947), Paniquian Is. (Gilbert 1947), Medio Is. (Gilbert 1947), Boaya Pt. (Gilbert 1947), Siasi Is. (Gilbert 1947), Philippines (Gilbert 1959).

UDOTEA ARGENTEA

Philippines (Gilbert 1959), Pearl Bank (Gepp 1911), Taytay (Taylor 1966), Balabac Is. (Taylor 1966), Taganak Is. (Taylor 1966), Philippines (Gilbert 1946), Culion Is. (Gilbert 1947), Taytay (Gilbert 1947), Philippines (Weber van Bosse 1913), Cuyo Is. (Gilbert & Doty 1969).

UDOTEA FLABELLUM

Philippines (Gilbert 1959), North Ubian (Gepp 1911), Philippines (Gilbert 1946), Sta. Cruz Is. (Gilbert 1947), Philippines (Weber van Bosse 1913), North Ubian Is. (A. & E. S. Gepp 1911), Dumaguete (Reyes 1970).

UDOTEA GLAUCESCENS

Virac Pt. (Gilbert & Doty 1969).

UDOTEA JAVENSIS

Philippines (Gilbert 1959), Taytay (Gilbert 1947), Tumakid (Gilbert 1947).

UDOTEA ORIENTALIS

Hundred Is. (Gilbert & Doty 1969), Baler (Gilbert & Doty 1969), Benticayan Bay (Gilbert & Doty 1969), Bato (Gilbert & Doty 1969), Calayucay Bay (Gilbert & Doty 1969), Maribojac (Gilbert & Doty 1969), Philippines (Gilbert 1959), North Ubian (Gepp 1911), Calayan Is. (Taylor 1966), Balabac Is. (Taylor 1966), Taganak Is. (Taylor 1966), Hundred Is. (Meñez 1961), Philippines (Gilbert 1946), Dalupiri Is. (Gilbert 1947), Sta. Cruz (Gilbert 1947), Taytay (Gilbert 1947), Philippines (Weber van Bosse 1913), Dumaguete (Reyes 1970).

UDOTEA SORDIDA

Philippines (Montagne 1844), Philippines (Martens 1866).

ULVA COMPRESSA

Philippines (Blanco 1837), Batangas Sea (Blanco 1877), Batangas Sea (Blanco 1845), Philippines (Merrill 1918), Batangas (Martens 1866).

ULVA FASCIATA

Jolo Is. (Gilbert 1959), Dumaguete (Reyes 1970).

ULVA INTESTINALIS

Philippines (Blanco 1877), Luzon (Merrill 1918), Philippines (Blanco 1837).

ULVA LACTUCA

Zamboanga (Gilbert 1959), Little Sta. Cruz Is. (Gilbert 1959), Dalupiri Is. (Gilbert 1959), Cagayan (Gilbert 1959), Manila Bay (Gilbert 1959), Puerto Galera (Gilbert 1959), Balatero (Gilbert 1959), Philippines (Gilbert 1946), Varadero Bay (Gilbert 1959), San Teodoro (Gilbert 1959), Puerto Princesa (Gilbert 1959), Big Sta. Cruz Is. (Gilbert 1959), Tabtabon Is. (Gilbert 1959), Lanhil Is. (Gilbert 1959), Tengolan Is. (Gilbert 1959), Batan Is. (Taylor 1966), Calayan Is. (Taylor 1966), Dalupiri Is. (Taylor 1966), Menabel (Taylor 1966), Manila Bay (Taylor 1966), Bonbon (Taylor 1966), Philippines (Velasquez 1948), Philippines (Weber van Bosse 1913), Dumaguete (Reyes 1970).

ULVA PERTUSA

Hundred Is. (Domantay 1961); Dumaguete (Reyes 1970).

ULVA RETICULATA

Philippines (Heydrich 1894), Moro (Gilbert 1959), Labuan (Gilbert 1959), Pangapuyan Is. (Gilbert 1959), Kapago (Gilbert 1959), Panigayan Is. (Gilbert 1959), Sibakel Is. (Gilbert 1959), Pilas Is. (Gilbert 1959), Cabenbeng (Gilbert 1959), Ticao Is. (Piccone 1866), Hundred Is. (Domantay 1961), Philippines (Montagne 1844), Philippines (Merrill 1918), Batangas (Blanco 1837), Batangas (Martens 1866), Menabel (Taylor 1966), Dimiao (Taylor 1966), Bantayan Is. (Taylor 1966), Liloan (Taylor 1966), Pangapuyan Is. (Taylor 1966), Lanhil Is. (Taylor 1966), Sangboy Is. (Taylor 1966), Saluping Is. (Taylor 1966), Baluk Baluk Is. (Taylor 1966), Laminusa Is. (Taylor 1966), Tawi-Tawi Is. (Taylor 1966), Sitankai (Taylor 1966), Hundred Is. (Meñez 1961), Philippines (Gilbert 1946), Zamboanga (Dickie 1876), Mactan Is. (Dickie 1876), Cebu Is. (Gilbert 1959), Big Sta. Cruz Is. (Gilbert 1959), Zamboanga (Gilbert 1959), Tabtabon Is. (Gilbert 1959), Lanhil Is. (Gilbert 1959), Baliwasan (Gilbert 1959), Basilan Str. (Gilbert 1959), Philippines (Weber van Bosse 1913), Batangas Sea (Blanco 1877), Batangas Sea (Blanco 1845), Dumaguete (Reyes 1970).

ULVA UMBILICALIS

Puro (Merrill 1918), Batangas (Blanco 1837), Dagatan (Blanco 1837), Bauang (Blanco 1837), Batangas Sea (Blanco 1845), Bauang (Blanco 1845), Dagatan (Blanco 1845), Batangas Sea (Blanco 1877), Bauang (Blanco 1877), Dagatan (Blanco 1877), Batangas Sea (Blanco 1845), Pinamucan (Blanco 1845), Bauang (Blanco 1845), Batangas (Martens 1866).

VALONIA AEGAGROPILA

Sibakel Is. (Taylor 1966), Puerto Princesa (Gilbert 1959), Atong Atong (Gilbert 1959), Sakul Is. (Gilbert 1959), Pangapuyan Is. (Gilbert 1959), Basilan Str. (Gilbert 1959), Calarian (Gilbert 1959), Cabuluay (Gilbert 1959), Caldera Bay (Gilbert 1959), Punta Mariki (Gilbert 1959), Taluksangay (Gilbert 1959), Moro (Gilbert 1959), Campo Islam (Gilbert 1959), Buenavista (Gilbert 1959), Panubigan Is. (Gilbert 1959), Bolong (Gilbert 1959), Lamitan (Gilbert 1959), Toburan (Gilbert 1959), Punta Matangal (Gilbert 1959), Sibakel Is. (Gilbert 1959), Siasi Is. (Gilbert 1959), Dumaguete (Reyes 1970).

VALONIA CONFERVOIDES

Tandoyong Is. (Domantay 1961), Hundred Is .(Domantay 1961).

VALONIA FASTIGIATA

Philippines (Weber van Bosse 1913), Philippine Is. (Thompson & Murray 1885), Pangapuyan Is. (Taylor 1966), Cabulay Is. (Taylor 1966), Sibutu Is. (Taylor 1966), Philippines (Gilbert 1946), Sta. Cruz Is. (Dickie 1876), Balete (Gilbert 1959), Little Sta. Cruz Is. (Gilbert 1959), Big Sta. Cruz Is. (Gilbert 1959), Punta Mangal (Gilbert 1959), Atong Atong (Gilbert 1959), Tabtabon Is. (Gilbert 1959), Pangapuyan Is. (Gilbert 1959), Cabaluay (Gilbert 1959), Bilang Bilang (Gilbert 1959), Balas (Gilbert 1959), Tundum Pasil (Gilbert 1959), Manicaan (Gilbert 1959), Labuan (Gilbert 1959), Bavara (Gilbert 1959), Panubigan Is. (Gilbert 1959), Lamitan (Gilbert 1959), Toburan (Gilbert 1959), Sikeang (Gilbert 1959), Kapago (Gilbert 1959), Tengolan Is. (Gilbert 1959), Takut Tangug (Gilbert 1959), Siasi Is. (Gilbert 1959).

VALONIA MACROPHYSA

Zamboanga (Martens 1866), Philippines (Gilbert 1946), Philippines (Gilbert 1959).

VALONIA PACHYNEMA

Philippines (Weber van Bosse 1913).

VALONIA UTRICULARIS

Philippines (Weber van Bosse 1913), Tandoyong Is. (Domantay 1961), Zamboanga (Martens 1866), Philippines (Gilbert 1946), Zamboanga (Dickie 1876), Philippines Gilbert 1959).

VALONIA VENTRICOSA

Tandoyong Is. (Domantay 1961), Minglanilla (Taylor 1966), Sibutu Is. (Taylor 1966), Hundred Is. (Meñez 1961); Dumaguete (Reyes 1970).

VALONIOPSIS PACHYNEMA

Dalupiri Is. (Taylor 1966), San Fernando (Taylor 1966), Dalupiri Is. (Gilbert 1959), San Fernando (Gilbert 1959), Puerto Galera (Gilbert 1959), Little Sta. Cruz Is. (Gilbert 1959), Malamaui (Gilbert 1959), Landang (Gilbert 1959), Sibago Is. (Gilbert 1959), Pangapuyan Is. (Gilbert 1959), Botong (Gilbert 1959), Balas (Gilbert 1959), Tundun

Pasil (Gilbert 1959), Punta Mariki (Gilbert 1959), Manicaan (Gilbert 1959), Babag (Gilbert 1959), Moro (Gilbert 1959), Gavilan Pt. (Gilbert 1959), Buenavista (Gilbert 1959), Panubigan Is. (Gilbert 1959), Bolong (Gilbert 1959), Sumut (Gilbert 1959), Punta Matangal (Gilbert 1959), Panigayan Is. (Gilbert 1959), Sibakel Is. (Gilbert 1959), Kilay Is. (Gilbert 1959).

VANVOORSTIA SPECTABILIS

Philippines (Weber van Bosse 1923), Philippines (Weber van Bosse 1923).

VOLVOX BARBERI

Pasig (Shaw 1922).

VOLVOX GLOBATOR

Manila (Shaw 1922).

VOLVOX MERRILLI

Pasig (Shaw 1922).

VOLVOX PERGLOBATOR

Manila (Shaw 1922).

VOLVOX ROUSSELETI

Manila (Shaw 1922).

VOLVOX MINIATA

Hundred Is. (Domantay 1961).

ZONARIA GYMNOSPORA

Batangas (Martens 1866), Pinamucan (Martens 1866), Bauang (Martens 1866), Dagatan (Martens 1866), Zamboanga (Martens 1866).

ZONARIA VARIEGATA

Hundred Is. (Meñez 1961), Gigantes Is. (Dickie 1876), Philippines (Weber van Bosse 1913).

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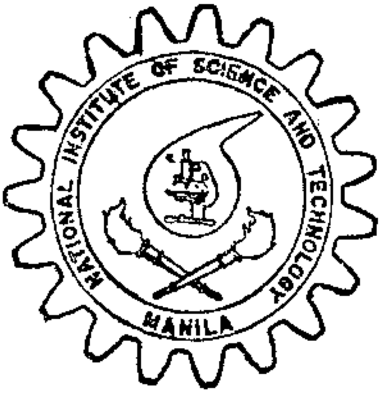
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